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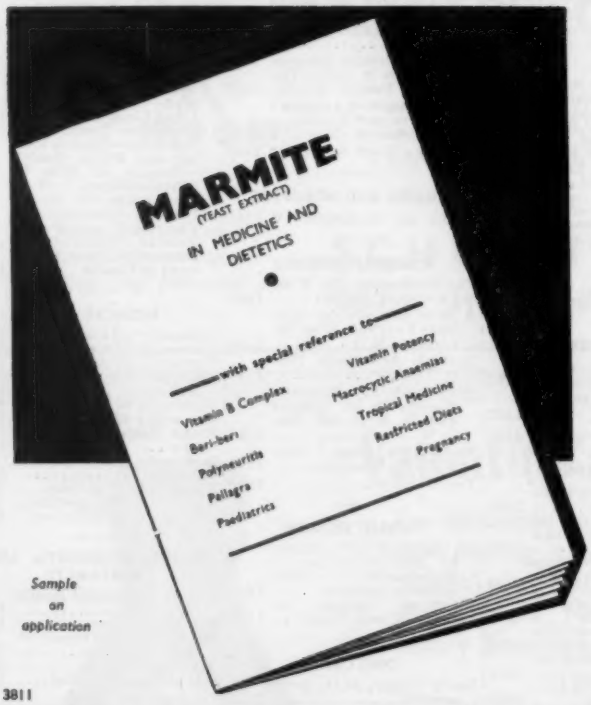


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GROUP CAPTAIN, ROYAL AIR FORCE; AND
D. J. Dawson, M.R.C.S.
FLIGHT LIEUTENANT, ROYAL AIR FORCE

The problems presented to the pioneers of aviation medicine have altered little during the passage of some twenty years; nervous stability and respiratory and cardiovascular efficiency are now, as then, the legs of the tripod which sustain the service pilot. The importance of these legs, however, has altered with the increasing power of aircraft. Of the three the psychological aspect is unquestionably the most important and the most difficult problem in the selection of candidates for service aviation. Improvements in the supply of oxygen during high flying have, temporarily at any rate, relegated the respiratory factor to the background, whereas increasing speeds, likely in some circumstances to evoke vast forces into action on the bodily mechanisms of the pilot, have brought the necessity of cardiovascular efficiency into greater prominence. As Marshall (1933) has pointed out, the forward speed that a pilot can endure without discomfort is far in excess of the speed that any aeroplane is capable of at present. It is only change of direction, acceleration, or deceleration that brings centrifugal forces into play. During these periods, usually lasting for only a few seconds at most, the pilot's body while in the usual position is subjected to these forces which, experiment has shown (Fischer 1937), drain the blood from the upper parts of the body.

Apart from this factor, strain is thrown in other ways on the circulatory system during flying. Flack and Bowdler (1920) stated "that from a consideration of blood-pressure records the conclusion is forced upon us that stress of service or high flying almost invariably produces a low diastolic pressure and a big pulse pressure due probably to lessening of vaso-constrictor tone of the arterioles."

It is largely for these reasons that hypotension has always been regarded with disfavour in assessing candidates for service flying, although many instances can be given of pilots, regarded as hypotensive, who have successfully carried out their duties for many years. The present conception of the fit and the unfit hypotensive is largely due to the work of Treadgold (1933), and although the hypothesis has been of value, for it allows that certain hypotensives at least are fit to fly, it has some drawbacks. Nature does not place people in convenient pigeon-holes at each end of a scale; hence the classification takes no notice of the moderately fit or moderately unfit hypotensives who form most of the group.

The position is further obscured for a variety of reasons. First and foremost there is a considerable difference of opinion as to what constitutes hypotension. Secondly, in much of the work on its incidence little notice is taken of the fact that the blood pressure of a normal person may fluctuate widely from day to day and sometimes almost from moment to moment (Cassidy 1936). Another difficulty, and one which has probably influenced opinion as to the suitability of hypotensives for flying, is that, in the convalescent or latent stages of certain diseases, faintness or actual fainting in association with a low blood pressure is fairly common. Whether these syncopal attacks are directly due to a lowering of pressure or are simply a manifestation of imperfect vasomotor control is a moot point. The association of tuberculosis and hypotension is usually considered common. Tice (1924) states that as a general rule hypotension exists in all stages of tuberculosis, and Beaven (1934) quotes the cases of fifteen American Air Force officers who developed tuberculosis, the average systolic pressure being 106 mm. Hg. Other observers have concluded that low blood pressure is not a reliable sign of tuberculosis. In many instances the fact that few, if any, pressure readings have been made before the onset of the disease tends to invalidate the figures.

### DEFINITION OF HYPOTENSION

Before the results can be discussed, some standard must be laid down whereby cases may be judged, and the fallacies which may be met with in the estimation of the blood pressure must be indicated.

As to what exactly constitutes hypotension there is much difference of opinion. Halls Dally (1938) regards a systolic pressure of 110 mm. Hg and a diastolic pressure of 66 mm. Hg as the low limit in males but says that there is some variation. The limits given by MacWilliam (1925) are a systolic pressure below 100 mm. Hg and a diastolic below 60 mm. Hg, and Miller (1936) gives 105 mm. Hg and 60 mm. Hg respectively for the lowest normal levels. In the United States army flying standards a systolic pressure of less than 105 mm. Hg is stated by Snell (1936) to disqualify for flying in all cases, but later regulations give the figure as 100 mm. Hg. The standard which has been in use in the R.A.F. for some considerable period is to regard any systolic pressure below 110 mm. Hg and any diastolic pressure below 70 mm. Hg as evidence of hypotension. It is this standard that is taken as constituting the lower limits of normality in the remainder of this paper.

Certain points in the technique of the use of the sphygmomanometer must be observed (Air Publication 130, 1938) if accurate results are to be obtained. The exact level of the systolic pressure is usually easy to obtain. Owing, however, to the variations that may be produced by emotional or other causes in young adults, the estimation of this pressure is not usually considered as valuable as that of the diastolic pressure. The value of the diastolic pressure has been accepted for some considerable period, but the difficulties in its correct estimation have not always been fully appreciated. Kilgore et al. (1915) considered that, although the auscultatory method was the best available, in a number of instances it was impossible to define it accurately, a number which Parkinson (1928) puts at more than 10 per cent. The difficulty is, moreover, greatest in the type of case that is of extreme importance in aviation medicine—the person with a low diastolic pressure.

To minimise fallacies the figures given subsequently, unless otherwise stated, are all from results obtained at the Central Medical Establishment, Royal Air Force, where if abnormal figures have been recorded they have nearly always been checked by an independent observer. If there has been any discrepancy, the figures which most nearly approached normality have been accepted as the true readings.

### INCIDENCE OF HYPOTENSION

In view of the difficulties already mentioned an attempt must be made to estimate the incidence of

hypotension in the healthy male adult of the age and class applying for commissions as pilots.

Many factors are known to influence the blood pressure, of which age and physique (Treadgold 1933) are probably of most importance. Examination of the records of blood pressure in adults taken over a number of years shows that low pressures tend to occur at the younger ages and usually disappear in subsequent examinations. It is thus to be expected that the incidence of hypotension will be higher in candidates for commissions whose age ranges from 17½ to 25, and from whom the cases to be described are chiefly drawn, than in a group of adults taken as a whole. Treadgold's (1933) figure of 3 per cent. hypotensives among fit pilots serving in the R.A.F. from 1927 to 1931 inclusive agrees with most estimates; Friedlander (1927) for instance, quoting from various observers, gives it as 2·2–4·5 per cent. in over 9000 young adults. Higher percentages have been given among groups of young men. Thus Melvin and Murray (1914) in 59 medical students found 5 with systolic pressures below 100 mm. Hg and 40 with diastolic pressures below 70 mm. Hg; 47 of the 59 (80 per cent.) were hypotensives according to R.A.F. standards. Chamberlain (1930) reported that in 60 medical students and doctors there were 15 with a systolic pressure below 110 mm. Hg; in 4 of these the diastolic pressure was below 70 mm. Hg. In addition 2 others had a low diastolic with a normal systolic pressure; hence 17 (28 per cent.) of the 60 cases were hypotensives. Bramwell and Ellis (1931) examined the circulatory systems of Marathon runners and found that the diastolic pressure was below 70 in 4 out of 28 runners. One man with a systolic pressure of 105 and a diastolic of 70 was third in the race. It will thus be seen that there are considerable discrepancies in the figures purporting to show the incidence of hypotension.

TABLE I—INCIDENCE OF LOW BLOOD PRESSURE DURING THE FIRST EXAMINATION OF 1000 CANDIDATES FOR SHORT-SERVICE COMMISSIONS AND OF 870 PILOTS

| Group | No. and type of case | Systolic pressure below 110 mm. Hg | Diastolic pressure below 70 mm. Hg | Both pressures below normal level | Total hypotensions on first exam. |
|---|---|---|---|---|---|
| | | Number and percentage | | | |
| 1 | 772 fit candidates | 8 (1) | 84 (11) | 7 (0·9) | 92 (11·0) |
| | 228 unfit candidates | 2 (0·9) | 31 (13) | 2 (0·9) | 33 (14·4) |
| | Total of 1000 candidates | 10 (1) | 115 (11·5) | 9 (0·9) | 125 (12·5) |
| 2 | 870 pilots | 27 (3) | 45 (5) | 7 (0·8) | 72 (8·3) |

To obtain some idea of the incidence of hypotension the blood-pressure records of 1000 consecutive candidates for short-service commissions (772 passed as fit and 228 as unfit) have been examined. These candidates when examined were between the ages of 17½ and 25 years, the majority being from 18 to 22 years of age. Hypotension was found at the first examination in 125 (12·5 per cent.). Of these hypotensives 73 were re-examined, usually a month after the original examination, but in only 22 was hypotension again found. In most instances hypotension resulted from a low diastolic pressure, 124 out of 125; in only 10 instances was the systolic pressure below 110 mm. Hg (see Table I, Group 1). It appears from these figures that, with the standards given above, hypotension is comparatively common (12·5 per cent.) in this age-group of apparently healthy young adults, but that it persisted in less than half the hypotensives who were re-examined once.

It is thus pertinent to ask how often hypotension is a persistent finding in any case. To obtain some data on this question the blood pressures of 870 pilots with permanent commissions, who were examined for various reasons at the Central Medical Establishment during 1931 to 1936 and the early months of 1937, have been analysed. In all 3988 records of blood pressure of this group were available for study. In 286 instances the blood pressures were examined on less than three occasions, and these cases have been omitted when the question of persistence of hypotension is being considered. The number of examinations in the remaining 584 cases averaged six, with a minimum of three and a maximum of twenty examinations. Before studying the persistence of hypotension in these cases, the findings in the group of 870 pilots (Table I, Group 2) are of interest for comparison with the group of 1000 candidates (Group 1) already noted. It must be pointed out, however, that the figures are not strictly comparable, even though in most instances records of the original examination at entry are available for the pilots in Group 2. In the case of war-time pilots no records have been kept of the first examination. As a consequence the age-grouping at the first Central Medical Establishment examination of Group 2 pilots is later than the age-grouping of the 1000 candidates given above. Owing to the tendency of blood pressure to rise with advancing years with a decrease in lability of the vasomotor system it is only to be expected that the incidence of hypotension should be less than in the young age-group. Another difference between the groups is that Group 1 consists of consecutive entrants, fit and unfit, whereas Group 2 consists only of accepted candidates. It may confidently be asserted that the rejected candidates, whose inclusion would be necessary to make the groups comparable, contained a fairly high percentage of hypotensives, especially since in the years immediately after the war less latitude was permitted in regard to hypotension than is now allowed.

In the 3988 examinations of blood pressure in Group 2 pilots the diastolic pressure was below 70 mm. Hg on 286 occasions (7 per cent.) in 182 of the 870 pilots. On the occasion of the first examination at the Central Medical Establishment—i.e., the examination in which the age-grouping most nearly approximates to that of Group 1—the diastolic pressure was below 70 mm. Hg in 45 instances and the systolic pressure below 110 in 27 instances. In 7 cases both pressures were below the normal levels at the first examination. A comparison of the blood pressures in the two groups is given in Table I. In 60 of the 870 pilots the diastolic pressure was below 70 mm. Hg on more than one occasion. Of those —584 in all—who were examined at least three times with an average of over five examinations, only 5, or less than 1 per cent., showed hypotension in 75 per cent. of their examinations; similarly, a low diastolic pressure was found in over 50 per cent. of the estimations in 9 pilots, or 1·5 per cent. Thus in only 9 of the pilots in this group can a more or less persistent hypotension be said to exist. All these 9 were under observation for common medical or surgical complaints; not one complained of syncope, dizziness, or similar conditions, and all but one have returned to full flying duties.

The incidence of hypotension in the young male adult according to Royal Air Force standards appears from these figures to be higher than is usually

imagined. A distinction must, however, be made between the occasional finding of a low pressure and its presence on repeated examination over a period of some months at least. Occasional hypotension is common. In the age- and sex-group under consideration it is present on first examination in about 1 out of 10 persons. If the examinations are repeated, this incidence rises with the number of examinations made. As a very rough estimate it may be said that, if five examinations are made at intervals, hypotension will be found in at least 1 of every 4 young adult males. Persistent hypotension is less common. For present purposes it is considered to exist when a low blood pressure is found in half of three or more examinations done at intervals of not less than a month. This is obviously an arbitrary and unsatisfactory standard, but it serves as a basis for the differentiation of the common from the more unusual type. In the 870 pilots the blood pressures of 584 were estimated on three or more occasions, and 9 instances of persistent hypotension were found, or about 1 in 70 persons.

### HYPOTENSION AND TUBERCULOSIS

Before leaving this part of the inquiry, the question of hypotension and tuberculosis is worthy of study in view of the considerations already detailed.

The records of blood pressures in thirty unselected cases of tuberculosis in officers during recent years have been available for examination. The figures have been abstracted from the results of the yearly examination of officers made at their respective stations and not at the Central Medical Establishment. In almost every case at least one record of blood pressure has been made during each year of service and in some instances more than one. In every case the blood pressure was estimated a few months before the actual diagnosis of the disease. In some of these patients conditions such as mild unexplained febrile attacks or attacks of "bronchitis," which may be regarded as possible early manifestations of tuberculosis, have preceded the actual diagnosis by months or years. In no case have these possibly prodromal conditions been accepted as evidence of tuberculosis. The only exception to this rule has been the case of sterile pleural effusions which have been accepted as evidence of tuberculous infection. A total of 264 blood-pressure examinations were made at roughly yearly intervals over a period which, for each officer, averaged 6½ years (maximum 16 years, minimum ½ year) before the date of admission to hospital, when the diagnosis of tuberculosis was made. Hypotension was found in only 22 instances or 8 per cent. of the total number of examinations. If this finding is compared with the results of 3988 estimations in 870 pilots, when hypotension was found on 286 occasions or 7 per cent., the increase is insignificant. It is of interest that in 7 instances hypotension was found during the period the officer was in hospital for investigation or immediately after the diagnosis had been made. In 4 of the 7, hypotension had not previously been found.

These cases are too few from which to draw conclusions, but they appear to support the view that hypotension, when associated with tuberculosis, is intimately related to the active stage of the disease.

### ESSENTIAL HYPOTENSION

In the study of hypotension in relation to flying an examination of those pathological cases of vasomotor instability called "essential hypotension," in which syncopal symptoms are caused by change of posture, appears to be helpful. The condition is rare; Croll and Duthie (1935) could only find records of 18 cases, but further cases have since been reported (Alvarez and Roth 1935, Chew, Allen, and Barker 1936, Davis and Davis 1937, Korns and Randall 1937, Langston 1936, and Weis 1935). The normal reaction of the blood pressure to change of posture has been the subject of much research, and the findings have been summed up by MacWilliam (1935), who wrote: "In normal individuals compensation for the hydrostatic effects of gravity on the vascular system is so good that, as generally agreed, the systolic pressure shows no constant or substantial variation, while the diastolic pressure is appreciably raised, in the erect posture."

Patients with essential hypotension usually complain of giddiness on assuming an erect posture, and examination has shown that the blood pressure, both systolic and diastolic, falls to very low levels on standing. A point which appears to be of importance is that in some of the cases the blood pressure taken in the usual sitting position is within normal limits.

It appears reasonable to imagine that between the frank case of essential hypotension and the normal there lies the person whose vasomotor control, although sufficient to prevent symptoms under ordinary conditions, may break down particularly under stress (Williamson et al. 1938). Such conditions of stress are likely to arise in pilots as a result of lowered oxygen tension, fatigue, and especially centrifugal force while flying. The persons most likely to suffer from these effects are those with the minor manifestations of essential hypotension—those, in fact, whose vasomotor systems do not react to stress in the same pronounced way as in the normal person.

The problem of detecting these people, who may by ordinary standards appear physically efficient, can be attacked from various angles. Here two methods have been tried: (1) a study of the blood pressures of those pilots who have reported symptoms of giddiness or actual syncope while flying or while on the ground, and (2) a flying test which subjected persons who appeared likely to be affected to the stresses of centrifugal force.

### BLOOD PRESSURE IN SEVERE GIDDINESS OR IN SYNCOPE IN PILOTS

The records have been collected of 58 pilots who have complained of symptoms of giddiness or of syncope during a period of some years. All cases for which complete records have been obtained are included, and no attempt has been made in this analysis to classify the various cases according to the different causes of fainting. Of the 58 pilots 3 showed persistent hypotension according to the standards previously given. In a further 13 pilots in this group the blood pressure was low at one or more examinations. The diastolic blood pressures in the whole group of 58 pilots with symptoms of syncope (Group A) have in Table II been compared with those obtained in a group of 584 pilots forming Group B. This latter group consists of those pilots from the group of 870 pilots, already discussed, who have had their blood pressure examined on three or more occasions, forming the most nearly comparable group it has been possible to obtain.

Each person in both groups has had an average of six examinations made at intervals over a period of years, the number of pilots in both groups always showing a normal diastolic pressure being roughly the same. There is a tendency in the syncopal group (Group A), in those cases which have a low diastolic

pressure, for these low readings to be more persistent than in the control group.

These figures are too small to draw anything but very tentative conclusions, but it may be said that, when occasional hypotension is present, if it is only slight and if symptoms suggestive of postural giddiness are absent, there seems little justification for placing much emphasis on this finding alone.

TABLE II—COMPARISON OF LOW DIASTOLIC BLOOD-PRESSURE FINDINGS IN 58 PILOTS (GROUP A) WHOSE PRINCIPAL SYMPTOM WAS SYNCOPE AND 584 PILOTS (GROUP B) EXAMINED FOR VARIOUS CONDITIONS

| Findings | Group A | Group B |
|---|---|---|
| | Number and percentage | |
| Pilots examined .. .. .. | 58 | 584 |
| Total blood-pressure estimations .. | 355 | 3541 |
| Average estimations in each case .. | 6 | 6 |
| Pilots showing a normal diastolic pressure .. .. .. .. .. | 41 (71) | 444 (76) |
| Pilots showing a low diastolic pressure on one or more occasions .. .. | 16 (28) | 140 (24) |
| Pilots showing a persistently low diastolic pressure.. .. .. .. | 2 (3·5) | 9 (1·5) |
| Pilots showing a low diastolic pressure on one occasion only.. .. .. | 4 (7) | 80 (13) |
| Pilots showing a low diastolic pressure on more than one occasion, but excluding cases of persistently low diastolic pressure .. .. .. | 10 (18) | 51 (9) |

Persistent hypotension is not necessarily accompanied by symptoms and in some cases is apparently a phase in the life of young adults, passing off after a longer or shorter period. Instances can be given of pilots who, judging by Royal Air Force standards, have been hypotensive during most of their flying life but have carried out their pilot duties without symptoms of giddiness or syncope for many hundreds of hours.

If the blood pressure is very low, such as a systolic pressure below 100 mm. Hg or a diastolic pressure below 60 mm. Hg, or if there is a real tendency to persistence of hypotension, great care and several examinations are necessary in assessing fitness for flying. Final assessment will depend to some extent on the degree and persistence of the finding in the person concerned but to a greater extent on the presence or absence of symptoms of hypotension.

### CENTRIFUGAL EFFECTS IN FLYING

Certain stresses occur in flying, chiefly as a result of sudden changes of direction, which impose centrifugal forces on the body of the pilot or passenger. These stresses occur especially on pulling sharply out of a dive or during a steep turn. The direction in which the force is applied naturally depends on the position of the body in relation to the centre round which the turn is effected. These forces[1] are usually measured in terms of *g*, the acceleration due to gravity. The force resulting from any given turn or similar manœuvre varies directly with the square of the speed of the machine and inversely with the radius of the circle through which the manœuvre is effected. For example, a machine doing a steep turn with a radius of rotation of 300 yards, at a speed of 200 miles per hour, causes a force of about 3·2 *g*; at 300 m.p.h. with the same radius the force is more than doubled. If, however, the radius of the circle is increased to 800 yards with a speed of 300 m.p.h., the resultant centrifugal force is rather less than 3 *g*. This force is measured by means of an accelerometer calibrated in terms of *g*, which gives either an instantaneous reading or a maximal reading as desired.

In the test on each subject the pilot used a standard procedure consisting of six to eight manœuvres, in which an increasing intensity of centrifugal force was applied, beginning at about 4 *g* and increasing to 7 *g* or slightly over.

The subject was in the normal sitting position in the rear cockpit of a Hart trainer aircraft, and centrifugal force was hence applied from the head down through the seat. In the earlier cases a series of dives ending in loops of increasing "tightness" was carried out at a height of 10,000 ft. The centrifugal force applied to the subject was, in this way, increased gradually up to near the limits allowed by the aircraft. With this technique it was found that the centrifugal force could only be applied for short periods and, as Marshall (1933) pointed out, the period of time during which the force acts is of extreme importance in the causation of symptoms. Fairly high forces can be applied for a more prolonged period by ending the initial dive in a steep turn or a shallow diving spiral. With the former method forces up to 8 *g* could be applied for a short period in the loops; with the latter technique forces of 4–6 *g* could be applied for much longer periods in the steep turns (Fig. 1). The later cases of the series were therefore all tested by this method, six steep turns, each starting with a dive to gain speed, forming the standard procedure. During the test the subject was asked to count slowly into the mouth-piece of the speaking-tube, beginning to count just before the start of the steep turn or loop. The time taken by a complete manœuvre was estimated with a stop-watch by the pilot, who had also, in the later cases, to watch the accelerometer readings continuously, the instrument being mounted in front of his eyes. In the earlier tests the instrument was switched on to "maximal reading" and therefore recorded the highest acceleration applied in any given manœuvre.

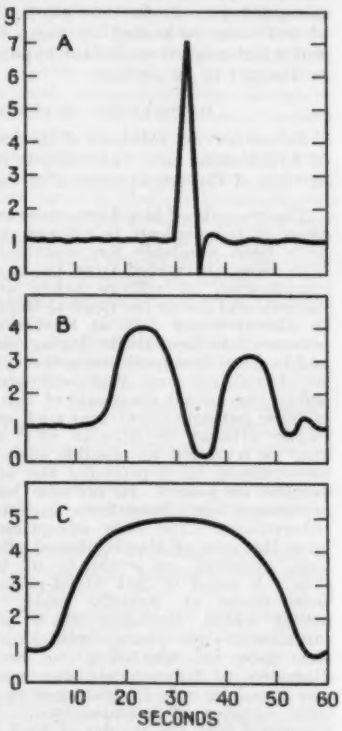


FIG. 1—Graphs of centrifugal effects after different types of aerial manœuvre (after H. von Diringshofen 1934). A, dive and pull out; B, tightened loop; C, steep spiral turn after dive. (Time marked in 5-sec. intervals; speed about 200 m.p.h. in each case.)

It is obvious that the many tasks required to be performed by the pilot—controlling the machine, watching the accelerometer reading, registering the duration of the stresses with the stop-watch, and

[1] The use of the word "force" in this connexion is not strictly correct; what is meant is the mathematical entity known as "acceleration."

listening to the subject counting—must mean that results can only be regarded as approximate. There is no doubt in our minds, however, that the degree of accuracy obtained was considerable. A recording accelerometer would have been a great advantage, but unfortunately one was not available.

### FLYING TESTS

The pilots selected to undergo the flying tests were divided into three groups according to the results obtained at their examination on entry to the Royal Air Force. Most of them had roughly the same amount of flying experience, but a few, used as controls, had considerably more flying to their credit. The groups consisted of:—

(1) Eleven controls, all with blood pressures within normal limits and giving satisfactory physical efficiency tests (Table III, Nos. 1–11).

(2) Five pilots all with normal blood-pressure readings at the original examination but showing poor results to the physical efficiency tests (Table III, Nos. 12–16).

(3) Nine pilots with diastolic pressures below 70 mm. Hg at the original examination (Table III, Nos. 17–25), including one pilot with persistent hypotension who is under medical observation because of symptoms of postural giddiness (No. 25).

*Symptoms.*—Before each test the subject was asked to take a careful note of his symptoms. At the conclusion of the test he went to sick-quarters, where he wrote his sensations down immediately. No questions of any sort were asked until this had been done, and every attempt was made to prevent any form of suggestion; when his report was finished, questions were asked in order to bring out any doubtful points. The pilot and certain of the subjects were affected

TABLE III—RESULTS OF FLYING TESTS

| No. | Original examination on entry | | | | | | | | Total hours flown | | Examination done immediately before test | | | | | | | | Flying tests | Symptoms produced | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Year of birth | Build | | | Pulse-rate | | Blood pressure (sitting) | | | | Pulse-rate | | Blood pressure | | | | | | | Times "greying" experienced | Times "black-out" experienced | Times consciousness lost | Other symptoms and remarks |
| | | | | | | | | | | | | | Lying | | Standing | | Sitting | | | | | | |
| | | Height (in.) | Weight (lb.) | Body-build | Sitting | Standing | Systolic | Diastolic | Dual | Solo | Lying | Standing | Systolic | Diastolic | Systolic | Diastolic | Systolic | Diastolic | | | | | |
| | | | | | | | | | | | GROUP 1—CONTROLS | | | | | | | | | | | | |
| 1 | 1912 | 68 | 131 | −13 | 66 | 84 | 120 | 78 | 60 | 1500 | 64 | 72 | 120 | 75 | 128 | 92 | 120 | 76 | 7 | .. | 1 | .. | Test pilot. Average of all tests. |
| 2 | 1909 | 74 | 185 | +15 | 72 | 84 | 115 | 90 | 30 | 80 | 88 | 104 | 116 | 76 | 108 | 82 | 112 | 76 | 6 | 1 | 1 | .. | Nausea and light-headedness. |
| 3 | 1914 | 68 | 138 | − 3 | 84 | 96 | 156 | 78 | 50 | 130 | 72 | 88 | 138 | 82 | 140 | 92 | 124 | 77 | 7 | .. | .. | .. | Palpitation. Vision unaffected. |
| 4 | 1913 | 68 | 142 | − 1 | 80 | 88 | 118 | 70 | 50 | 80 | 72 | 80 | 128 | 76 | 125 | 80 | 114 | 76 | 7 | 2 | .. | .. | Distant vision impaired only. |
| 5 | 1913 | 71½ | 152 | − 5 | 66 | 84 | 144 | 82 | 60 | 70 | 64 | 80 | 130 | 72 | 120 | 80 | 116 | 72 | 7 | .. | 5 | 2 | Loss of hearing. Nausea. |
| 6 | 1912 | 68½ | 143 | − 3 | 84 | 96 | 136 | 78 | 50 | 100 | 64 | 64 | 135 | 78 | 146 | 88 | 120 | 70 | 7 | 1 | 1 | .. | .. |
| 7 | 1917 | 70 | 148 | + 3 | 78 | 90 | 126 | 82 | 60 | 90 | 72 | 96 | 135 | 72 | 136 | 80 | 130 | 62 | 6 | .. | 1 | .. | .. |
| 8 | 1916 | 70 | 137 | −11 | 72 | 84 | 124 | 70 | 40 | 500 | 72 | 96 | 115 | 70 | 112 | 75 | 115 | 72 | 11 | .. | 6 | 2 | No effect when belt worn. |
| 9 | 1915 | 67 | 158 | +20 | 78 | 84 | 138 | 82 | 70 | 50 | 120 | 112 | 134 | 85 | 152 | 85 | 138 | 82 | 17 | .. | 8 | 2 | Electric shocks thighs. |
| 10 | 1919 | 68½ | 134 | − 5 | 78 | 90 | 126 | 72 | 63 | 94 | 72 | 112 | 128 | 78 | 128 | 82 | 116 | 72 | 12 | 3 | 4 | 1 | Dreamy state. |
| 11 | 1916 | 69½ | 136 | − 9 | 70 | 84 | 130 | 80 | 50 | 400 | 72 | 88 | 135 | 85 | 128 | 95 | 128 | 85 | 6 | 1 | .. | .. | .. |
| | | | | | | | | | | | GROUP 2—TACHYCARDIAS | | | | | | | | | | | | |
| 12 | 1916 | 64 | 119 | − 6 | 102 | 108 | 125 | 95 | 40 | 120 | 72 | 80 | 130 | 88 | 128 | 88 | 128 | 86 | 8 | 2 | 3 | 1 | Found he was crying on recovering consciousness. |
| 13 | 1915 | 73 | 141 | −17 | 84 | 108 | 125 | 75 | 45 | 105 | 104 | 120 | 126 | 68 | 118 | 78 | 114 | 76 | 6 | 2 | 3 | .. | Loss of hearing. |
| 14 | 1917 | 64 | 136 | +12 | 102 | 102 | 135 | 95 | 60 | 280 | 96 | 104 | 132 | 82 | 138 | 94 | 132 | 78 | 10 | 3 | 2 | .. | .. |
| 15 | 1915 | 69½ | 135 | −11 | 108 | 120 | 130 | 80 | 60 | 90 | 80 | 96 | 122 | 78 | 135 | 94 | 120 | 75 | 5 | 1 | 3 | .. | .. |
| 16 | 1917 | 71½ | 170 | +14 | 102 | 108 | 140 | 75 | 52 | 65 | 84 | 100 | 120 | 68 | 114 | 82 | 112 | 65 | 8 | .. | 4 | .. | Tingling of upper part of body. |
| | | | | | | | | | | | GROUP 3—HYPOTENSIVES | | | | | | | | | | | | |
| 17 | 1916 | 66 | 127 | − 5 | 72 | 72 | 124 | 60 | 50 | 150 | 80 | 80 | 125 | 78 | 130 | 85 | 107 | 65 | 6 | 3 | .. | .. | Tunnel vision. |
| 18 | 1914 | 71 | 149 | − 3 | 72 | 78 | 115 | 65 | 60 | 240 | 64 | 80 | 110 | 60 | 112 | 68 | 105 | 52 | 7 | 1 | 4 | 1 | Dreamy state. |
| 19 | 1916 | 69½ | 122 | −20 | 96 | 108 | 114 | 66 | 50 | 120 | 88 | 96 | 120 | 68 | 122 | 76 | 112 | 64 | 6 | .. | 3 | 1 | .. |
| 20 | 1914 | 66 | 138 | + 5 | 66 | 72 | 130 | 65 | 50 | 150 | 88 | 88 | 142 | 76 | 132 | 84 | 122 | 78 | 7 | 3 | 1 | .. | Pressure on stomach. |
| 21 | 1917 | 72 | 146 | − 6 | 84 | 84 | 120 | 60 | 70 | 430 | 96 | 120 | 148 | 75 | 142 | 68 | 145 | 74 | 7 | 2 | 2 | .. | Distant vision impaired. |
| 22 | 1919 | 69½ | 132 | − 9 | 60 | 72 | 115 | 65 | 50 | 110 | 88 | 120 | 135 | 76 | 120 | 85 | 115 | 72 | 6 | .. | 3 | .. | Numbness of legs and tingling. |
| 23 | 1906 | 69 | 136 | −17 | 72 | 72 | 122 | 66 | 70 | 440 | 64 | 80 | 114 | 68 | 118 | 84 | 112 | 66 | 8 | .. | 2 | .. | Pain in occiput. Tingling. |
| 24 | 1918 | 66 | 123 | − 6 | 66 | 72 | 126 | 62 | 70 | 70 | 60 | 70 | 106 | 62 | 108 | 76 | 95 | 58 | 8 | 3 | 3 | .. | Loss of hearing. Tingling in fingers. |
| 25 | 1915 | 70 | 123 | −23 | 72 | 84 | 120 | 65 | 50 | 150 | 64 | 80 | 98 | 58 | 100 | 66 | 96 | 62 | 8 | .. | 7 | 2 | Intermittent "black-out" with belt. Fatigue, pain in neck. |

hardly at all, even by the highest possible stresses. The commonest symptom (apart from "a feeling of being pressed into the seat," which is experienced by everyone during these manœuvres) was the visual one usually known as "blacking out." This varied from a dimming or greying of the whole field of vision to complete blindness, often without any effect on any of the other systems of the body. In one case distant vision remained clear, whereas close objects,

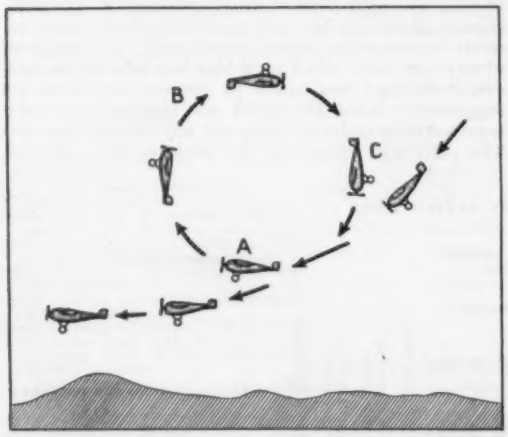


FIG. 2—Diagram showing latent period in "blacking out." A, period of greatest stress; B, start of visual symptoms; A–B, latent period before symptoms begin; C, start of recovery.

such as the instruments, were blurred. In several cases the reverse was described, distant objects becoming blurred. One subject clearly experienced a central scotoma, and one described loss of only the peripheral field. In most cases the onset of the loss of vision was gradual and even throughout the field. Two described the effects as similar to the drawing of a blind over the field of vision, and one compared the loss to the closing of the diaphragm of a camera. Other symptoms included a partial or total loss of hearing. In occasional instances various somatic symptoms were noted, such as tingling in the limbs, pains in the head or abdomen, and nausea. Those most severely affected lost consciousness completely, the loss in some cases being associated with vivid dreams.

The description given by one pilot may be taken as fairly typical of the more severe symptoms:

"Next we did another steep turn. What exactly took place I am not too certain about, as I was feeling a little sick, but I do remember the speedometer registering 210–220 m.p.h. and also feeling very tired. . . . The pilot's voice in my ear-phones brought me back to my senses from what seemed to me like a long sleep. I still felt very tired and sick. I informed the pilot of my condition, and a few minutes later we landed."

One fact, noted on several occasions, was that there was a distinct latent period between the point of onset of maximal stress and the occurrence of symptoms (Fig. 2). This was seen especially during looping, the maximal *g* stress occurring at the point of pulling up from the dive but symptoms not starting until the machine was almost on its back, when *g* stresses are slight. It is usually accepted that the symptoms are due to draining of the blood from the upper part of the body as a result of the centrifugal force (von Diringshofen 1934, Brouwer 1935), an explanation which appears to account for the symptoms more satisfactorily than any other, but one which is not universally accepted. Of other hypotheses the commonest postulate forcing of the brain on to the base of the skull or pressure effects in the cerebro-spinal fluid. In any case, more experimental work into the exact mechanism by which symptoms are produced appears to be necessary. It was found while doing the tests that symptoms were always worse if the tests were carried out after a heavy meal, and numerous pilots have stated that "blacking out," so far as they were concerned, was increased after taking alcohol, both of which conditions tend to produce engorgement of the abdominal vessels.

It might be imagined that the hypotensive starts at a disadvantage compared with a person with a normal pressure. That this is not necessarily so is suggested by the fact that, during these flying tests, of 8 cases of fainting, 3 occurred among the hypotensives and 5 among those with normal blood pressures. Hypotension and poor vasomotor control are not synonymous conditions, although they may occur together. It is tentatively put forward that in pilots who are early affected by centrifugal force it is poor vasomotor control that in many cases is the basis of the condition, a lack of control similar in character to, though different in degree from, that found in essential hypotension.

The importance in pilots of a firm abdominal musculature was repeatedly emphasised by Flack, but unfortunately it is difficult to detect minor degrees of loss of tone, and it has not been possible to show any alteration in tone in the abdominal muscle of hypotensives who have been recently examined. Moreover, if it is justifiable to compare these cases with the published cases of essential hypotension, it appears that splanchnic pooling is not necessarily the only factor involved. In most of the essential hypotensives there is a fall of both the blood-pressure levels on changing from the supine to the sitting position and a further fall on changing from the sitting to the standing position. Besides, in Croll and Duthie's (1935) case a firm abdominal binder had only a comparatively small effect in preventing fall in blood pressure. MacWilliam (1935) commenting on this case says:—

"The greater fall seen in the standing posture as compared with the sitting is an indication of the part played by the lower limbs. Clearly the greater fall in standing is not simply due to gravitation directly affecting the capacious splanchnic area. For while a pressure may fall much lower in standing than in sitting the incidence of gravity is similar in these postures, the trunk being vertical in both and the main difference being in the position of the lower limbs."

Mateeff and Schwarz (1935), working in a pressure chamber, found at 15,000 ft. that most subjects after standing 15–20 minutes showed a fall of blood pressure with subsequent collapse. When the legs were compressed, the fall in blood pressure could be avoided only to recur when the compression ceased.

These findings suggest that prevention of symptoms by an abdominal belt is unlikely to be completely successful. Actually, however, in the two cases in which a belt designed by Flight Lieut. J. B. Wallace, M.B., was tried there was a considerable measure of success. Both cases had fainted when doing the tests

in the usual manner; with the belt the effects were less severe and syncope did not occur.

### RESULTS OF INDIVIDUAL TESTS

A summary of blood-pressure findings, age, and other details of the individuals is contained in Table III. Symptoms caused by the test have been graded under three headings: (1) "greying" or dimming of vision without actual blindness; (2) "blacking out," when actual loss of sight was complained of; and (3) syncope. The Table also shows the number of tests done on each pilot and the number of times symptoms were reported. The classification of the symptoms depended on each subject's description and his notes made during the test flight. Syncopal symptoms could be confirmed by the pilot.

*Incidence of symptoms.*—One pilot, a control, stated that he was completely unaffected, but he was among the earlier cases and would doubtless have been affected to some slight extent by the methods used in the later series. Three pilots—two controls and one hypotensive—reported dimming of vision only. All the remainder "blacked out" during one or more of the tests. Eight pilots lost consciousness for short periods during one or more of the tests. Some passed into a dreamy state in which they were probably subconscious only; one was so deeply unconscious as to hit his head on the control column, causing a slight bruise; and another complained of soreness of the neck due to the involuntary swinging of the head while he was unconscious.

*Age and symptoms.*—The older pilots unquestionably were less affected than the younger, but the position is complicated by the facts that the differences in age are comparatively slight and that the older pilots had more flying experience. Flying experience, however, was insufficient in itself to prevent the more severe symptoms, for one pilot with over 500 hours' flying was rendered unconscious. Owing to these factors no attempt can be made to correlate age and the severity of the symptoms.

*Body-build and symptoms.*—Although von Diringshofen (1934) considers that theoretically a small man can withstand centrifugal force during flight better than a big man, in this series of tests no connexion could be found as regards either height, weight, or body-build and the severity of the symptoms. Of 6 persons over 5 ft. 10 in. tall, 1 "blacked out" once, 1 twice, 1 three times, 1 four times, and 2 fainted during the tests. Of 5 pilots who were 5 ft. 6 in. tall or under 1 had dimming of vision only, 1 "blacked out" once, 1 twice, 1 three times, and 1 fainted.

With regard to body-build, the greatest overweight (+20 lb.) and the greatest underweight (−23 lb.) both complained of syncopal symptoms. The 6 remaining pilots who fainted were all underweight; but, since 19 of the 25 pilots tested were underweight and there was no correlation between the degrees of underweight and the severity of the symptoms, this was not considered to be of any significance.

*Pulse-rate and symptoms.*—Five pilots forming Group 2 (Table III, Nos. 12–16) were chosen for test because of poor physical efficiency responses at the original examination. These pilots were possibly affected earlier than the controls, but the difference was not great. One of the control cases who fainted (Table III, No. 9) had a fast pulse-rate immediately before the test. This pilot was soon afterwards withdrawn from flying training as psychologically unsuited, and the tachycardia was probably emotional in origin. The average pulse-rates (lying and standing, taken immediately before the tests) in 8 cases showing syncopal symptoms were 77 and 92 per minute respectively. The corresponding figures for the 17 remaining pilots were 73 and 87 and for the 11 controls 75 and 90 per minute. The number of syncopal cases is so small that the figures were unduly influenced by one case showing severe tachycardia. All that can be said is that there was a tendency for the pulse-rate to be faster and the increase on standing to be a little greater in the pilots showing syncopal symptoms than in the other cases.

*Blood pressure and symptoms.*—The blood-pressure findings at the original medical examination taken in the sitting position and the records taken in the lying, sitting, and standing positions are given in Table III. The second groups of readings were taken immediately before the flying test in most instances, except in one or two pilots in the control group, in whom the estimations were made some days after the test was done. All these records of blood pressure were made by the auscultatory method and checked by an oscillogram (Plesch).

The *systolic pressure* varied considerably from slight and obscure causes, and it was difficult to detect any relationship between the changes and the results of the flying tests.

In the examination on entry 6 candidates had a systolic pressure above 130 mm. Hg. Of these 1 felt no effects from the test, 1 "blacked out" once, 1 twice, 1 four times, and 2 fainted. At the same examination 5 candidates had a systolic pressure below 120 mm. Hg; 1 complained of dimming of vision only, 1 "blacked out" once, 1 three times, and 2 fainted. The remaining 14 candidates had systolic pressures between 120 and 130 mm. Hg. Of these 2 complained of dimming of vision only, 3 "blacked out" once only, 2 "blacked out" twice, 3 "blacked out" on three occasions, and 4 fainted.

In 13 instances the systolic blood pressure showed a rise in the standing position as compared with the lying position, in 11 it showed a fall, and in 1 was unchanged. In these examinations at least two minutes were allowed to elapse before taking the pressure in either position, so that the levels might settle down after movement. A rise of 5 mm. Hg or more on changing position was shown by 6 pilots; of these 1 complained of dimming of vision only, 2 "blacked out" once, 1 twice, 1 three times, and 1 fainted. In 8 of the 11 pilots whose systolic pressure fell the fall was 5 mm. Hg or more on changing position. Of these 1 complained of dimming of vision only, 2 "blacked out" once, 1 twice, 2 three times, 1 four times, and 1 fainted. Of the 8 who fainted while under test 6 showed only slight differences in level in the two postures—less than 4 mm. Hg. Similar slight differences in systolic levels on changing position were found in 5 other pilots: 1 was unaffected by the flying tests, 1 noted dimming of vision only, 1 "blacked out" once, 1 twice, and 1 three times.

The average systolic pressures lying and standing in 17 pilots who did not faint during the test were 128 and 127 mm. Hg respectively, whereas for the 8 who fainted the corresponding figures were 121 and 122 mm. Hg.

A *diastolic pressure* above 90 mm. Hg at the first examination which fell to within normal limits at subsequent examinations was found in 2 pilots. Diastolic pressures below 70 mm. Hg were found in 9 pilots; 7 of these have been kept under special medical observation during their training, and in all cases the low diastolic pressure has been found at one or more of the subsequent examinations. Thirty-two blood-pressure examinations were made on these 7 cases at intervals of not less than a month during the training period, hypotension being found on twenty-one occasions. In 3 of the pilots the diastolic pressure in one of these examinations was below 60 mm. Hg. A low diastolic pressure was again found in 6 of the 9 cases at the examination made before the flying tests. These 9 hypotensive cases form the last 9 cases in Table III, where it will be seen that the reactions to the flying tests differ very little from those obtained in the 11 control cases. Of the 6 pilots who showed hypotension at both the original examination and the examination before the test

3 had syncopal symptoms. One of these is the case of persistent hypotension with symptoms of postural giddiness noted above. Taking the sitting diastolic pressures as the standard, it is difficult to conclude that hypotension of moderate degree has any very direct relationship to the symptoms. It must again be emphasised that each of the 9 hypotensive pilots had shown a low diastolic pressure at more than one examination and the majority several times in four to six examinations made at monthly intervals. According to the standards given above, the majority, during a period of roughly a year, were persistently hypotensive.

Change of posture from lying to standing produced in 23 of the 25 cases a rise in the diastolic pressure. In 2 cases the pressure was unchanged. The average rise in 11 control cases was just over 7 mm. Hg and in 9 hypotensives over 11 mm. Hg. The average diastolic pressures lying and standing in 17 pilots who did not faint during the tests were 75 and 86 mm. Hg respectively, thus showing an average rise of 11 mm. Hg on change of posture. The corresponding figures for the 8 pilots who fainted were 72 and 77 mm. Hg for lying and standing respectively, an average rise of 5 mm. Hg. The rise in the diastolic pressure was fairly consistent in the 17 pilots, the lowest increase being 4 mm. Hg and the greatest 20 mm. Hg. Of the 8 pilots who fainted under test in 2 there was no change in pressure, in 1 a rise of 4 mm. Hg, in 1 a rise of 5 mm. Hg, and in 4 a rise of 8 mm. Hg. In 2 instances the rise though of fair size did not bring the standing diastolic blood pressure above 70 mm. Hg.

It is fully realised that the number of cases tested is too small to draw any but the most tentative conclusions. In these few instances it appears that hypotension per se, unless marked, is no criterion of the severity of symptoms likely to be caused by centrifugal force. If hypotension is present, an inability to increase the diastolic pressure to above 70 mm. Hg on standing is an unfavourable sign. Whether hypotension is present or not, a fall or a rise of only a few millimetres of mercury on changing from the lying to the standing position is a sign of cardiovascular instability, which calls for care in selecting a pilot for certain types of flying. The results obtained in these tests suggest that a study of the lying and standing blood pressures may assist a decision in any given case, when the physical stamina to withstand high centrifugal stresses is in question. Further research on this subject appears desirable.

There can be no doubt that the psychological fitness of a candidate is more important than physical fitness as regards his eventual success or failure as a service pilot. Those who, although temperamentally suitable, are of substandard physical efficiency need not always be rejected; but, if accepted, must be protected in the early stages of their flying career from any undue physical strain. The question of the medical grading of pilots on entry therefore requires further study and consideration. In any case of doubt in the grading of a pilot it is suggested that estimation of the lying and standing blood pressures should form part of the examination. It is not to be expected that examination of any one factor can supply an answer to the problem of cardiovascular efficiency in flying. The combinations that may result from the many variable factors which build up an efficient cardiovascular system are so many that all available evidence must be taken into account. It is not suggested that the diastolic pressures, lying and standing, are more than one link in the chain of evidence, probably for use only in special cases, but they form an additional factor that may give some help in solving an extremely intricate problem.

## SUMMARY

(1) Hypotension may be said to be present when the systolic blood pressure is below 110 mm. Hg or the diastolic below 70 mm. Hg. Moderate grades of hypotension are considered to be present if the systolic level is between 110 and 100 mm. Hg or the diastolic between 70 and 60 mm. Hg; severe grades when the systolic pressure is below 100 mm. Hg or the diastolic below 60 mm. Hg.

(2) Hypotension is sometimes accompanied by symptoms, such as postural giddiness, and, when so associated, is an absolute bar to all flying. An isolated finding of a severe grade of hypotension is compatible with good health but always calls for considerable caution when assessing for flying duties.

(3) Hypotensive persons may be divided into two ill-defined groups: (*a*) occasional hypotensives, and (*b*) persistent hypotensives. (*a*) Occasional hypotention is not uncommon and is found in a large proportion of young adults when repeated examinations are made. As an isolated finding moderate grades are of little importance so far as flying is concerned. (*b*) Persistent hypotension is comparatively rare. It is not necessarily, or even usually, permanent but lasts only for a variable period. It may be associated with symptoms of hypotension or with some underlying disease, in which case it is a bar to flying. It is, however, compatible with good health, and then piloting duties may be permitted.

(4) It is probable that the ability of the cardiovascular system to withstand centrifugal effects during flight depends largely on its power to react rapidly to stress. This power is as necessary for the person with normal blood pressure as for the hypotensive.

We wish to thank our colleagues of the Central Medical Establishment of the Royal Air Force for their assistance in the preparation of this paper, especially Group Captain H. L. Burton, who originated the work and has given much help throughout, and Group Captain G. S. Marshall for helpful criticism of the final report. Our thanks are also due to Wing Commander H. K. Goode, officer commanding No. 24 Squadron, for his ungrudging help over the flying tests and to the pilot, Flight Lieut. H. G. Lee, whose skill and enthusiasm in performing the actual tests were invaluable.

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# ROLLING DISEASE

## NEW SYNDROME IN MICE ASSOCIATED WITH A PLEUROPNEUMONIA-LIKE ORGANISM

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In September, 1933, during the course of routine passage of the neurotropic yellow fever virus in the brains of mice it was noted that some mice were developing nervous symptoms within 48 hours of inoculation instead of in 4–5 days as is the case with the neurotropic strain of yellow fever. Apart from the shorter incubation period, the nervous symptoms differed from those caused by the neurotropic yellow fever virus in that some of the mice would roll over and over sideways, much in the way that a barrel is rolled along the ground—hence the name "rolling disease." Although the brains of rolling mice showed no bacterial growth when cultured both aerobically and anaerobically on the more commonly employed bacteriological media, smears from the brains of affected mice revealed many polymorphonuclear leucocytes and, when stained with Giemsa, certain minute pleomorphic granules, slightly larger than those of the vaccinia virus. Attempts to filter these granules through Seitz filters failed, but separation from the yellow fever virus was finally obtained by three successive intracerebral passages of infected mouse brain to which had been added immune yellow fever serum.

After being passaged in mouse brains for nearly eight months the passage strain of the agent was destroyed by bacterial contamination, and on going back to material which had been frozen and dried for six weeks its activity was found to have completely disappeared. The responsible agent was thus unfortunately lost.

In September, 1937, investigation of several strains of the virus of lymphocytic choriomeningitis showed that mice injected intracerebrally with one strain (S) of this virus were dying 2–3 days after inoculation instead of in 4 days; further, some of the mice began to exhibit the same rolling that had been noted in 1933–34. Histologically, material from the brains of mice with rolling disease showed an infiltration with polymorphonuclear leucocytes, and smears from these brains exhibited a small number of minute pleomorphic granules which could not be grown on the usual bacteriological media.

Although it is unfortunately impossible to compare serologically the earlier and later strains of the agent of rolling disease and thus definitely to confirm their identity, the similarity in the symptoms and pathological lesions leaves little doubt that the two conditions observed in 1937 and 1937 are identical.

The following preliminary observations are published in view of the description by Sabin (1938), in America, of a somewhat similar syndrome in mice; further, the experiments carried out on the ætiology of the condition raise certain points of considerable interest to pathologists.

### CLINICAL SYMPTOMS

The symptoms presented by the mice after intracerebral inoculation of 0·03 c.cm. of a 20 per cent. suspension of infected mouse brain in physiological saline are very characteristic. Forty-eight hours after inoculation the fur is roughened, many of the mice are irritable, and others may turn in circles with their tails as a fixed axis. Some, usually about 10 per cent., exhibit the rolling after which the disease is named. The first indication that the mouse is about to roll is shown by slow rotation of the head, followed by raising of the foreleg from the ground, when with a jerk the animal rolls over, the whole process taking about 5 seconds (a cinematograph film of the rolling has been made and exhibited, cf. Findlay and Mackenzie 1934). The rolling may be initiated by some stimulus or may arise apparently spontaneously. Once it has begun, fifty or more consecutive revolutions may be made, or the mouse may cease rolling after a dozen turns, as if tired out. Mice which have begun to roll in one direction—e.g., from left to right—rarely reverse, but on one or two occasions mice have been noted which rolled both clock- and anticlock-wise. The direction in which they roll does not depend on the side of brain inoculated. Mice exhibiting the rolling, which may in some instances be delayed for as long as 16 days after inoculation, usually die within 24 hours, and in fact approximately 75 per cent. of the inoculated mice, whether rolling or not, die in 2–7 days. Of the 25 per cent. of mice which live longer than a week about a half develop acute hydrocephalus. The frontal bones are raised, and the skull bulges forward. Acute hydrocephalus has been observed 8 days after inoculation, but more commonly it does not occur till a fortnight or three weeks after injection. In mice with hydrocephalus death follows usually in a week or ten days after the onset of this sign.

One hundred and ten intracerebral passages in mice have now been carried out, and little or no change has been noted in the effects produced, although there is perhaps a tendency for the number of mice actually rolling to decrease in the latter passages, while the number of mice dying in 3–7 days increases. Although no attempt was made to separate the agent of rolling disease from the virus of lymphocytic choriomeningitis, it was noticeable that when mice had survived an intracerebral injection of mouse brain infected with rolling disease they no longer died from lymphocytic choriomeningitis. It was at first thought that the virus of lymphocytic choriomeningitis had entirely disappeared, but later observations showed that it had merely been suppressed. Brains from mice dying of rolling disease were placed in 50 per cent. glycerin saline and kept 3–6 months in the ice-chest at +4° C. On inoculating these glycerinated brains into mice it was found that the mice died, not with signs of rolling disease but 4 days after injection with the signs typical of lymphocytic choriomeningitis. This particular strain of lymphocytic choriomeningitis, which will be described more fully in a further paper, differs from the other strains of lymphocytic choriomeningitis previously isolated. Preservation in glycerin saline thus apparently destroys the agent of rolling disease but unmasks again the virus of lymphocytic choriomeningitis.

### PATHOLOGICAL LESIONS

The pathological changes produced in rolling disease were studied by killing mice at various intervals after injection, removing the head, and, after detachment of the lower jaws, placing it in

5 per cent. formalin containing 12·5 per cent. nitric acid for twenty-four hours. By this means the skull is sufficiently decalcified to allow the whole skull and brain to be embedded and serially sectioned by the ordinary paraffin technique.

Serial sections showed no lesions in the middle ear to account for the rolling symptoms, but there was an intense inflammatory reaction in the brain. This reaction, which was almost entirely a polymorphonuclear leucocytosis with a very few large mononuclear leucocytes, began round the point of insertion of the needle. Polymorphonuclear leucocytes were also seen infiltrating the floor of the lateral ventricles and the choroid plexus, and small masses of polymorphonuclear leucocytes were present in the meninges. In the fully developed condition enormous masses of polymorphonuclear leucocytes were seen forming a lesion which closely resembled an acute abscess. This lesion extended from the frontal lobes, broke into the lateral ventricles, and extended down into the third and fourth ventricles. In mice which developed acute hydrocephalus the lateral ventricles were equally and intensely dilated, the cerebral cortex being reduced to a thin layer. In the meninges were small collections of leucocytes, but the number of polymorphonuclear leucocytes was now reduced and was as a rule equalled by the number of small lymphocytes and large mononuclear cells. A few cells were present in the ventricles, and serial sections showed masses of cells completely blocking the fourth ventricle.

Sections and smears from the brains of mice during the acute stage did not show any bacteria, but smears stained by Giemsa's method showed small granules, approximately twice the size of the vaccinia virus, the majority extracellular but others within the polymorphonuclear and large mononuclear leucocytes. A few slightly larger spherical bodies were also seen.

### ÆTIOLOGY

The absence of bacteria in smears from infected brains and the failure to observe any obvious growth on ordinary media suggested that the cause of the disease was a virus. This suggestion was strengthened by the discovery of the small granules previously described. On the other hand, the intense polymorphonuclear reaction was unlike that characteristic of viruses, the ætiological agent was not preserved in 50 per cent. glycerin in saline for more than 30 days, and it did not filter readily. Efforts to filter a 20 per cent. suspension of infected mouse brains in broth through Berkefeld V filters at first appeared to be entirely unsuccessful, but on passing the mouse brains injected with the filtrates into the brains of other mice symptoms began to develop. The agent had thus passed Berkefeld V filters in amounts insufficient to cause symptoms.

In the uncertainty about the ætiological agent an effort was made, at the suggestion of Sir John Ledingham, to determine whether a pleuropneumonia-like organism might not be the cause. One of us (E. K.) therefore made cultures of infected mouse brains on the special medium evolved (Klieneberger 1938) for the isolation of these organisms. The mouse brains infected with rolling disease were supplied under numbers, accompanied by normal mouse brains and by brains infected either with other strains of the virus of lymphocytic choriomeningitis or with the viruses of lymphogranuloma inguinale or the neurotropic strain of yellow fever. From the brains of mice inoculated with rolling disease, but not from the other brains, a pleuropneumonia-like organism, designated $L_5$, was invariably isolated. The presence of $L_5$ in the brains of infected mice did not at once clear up the ætiology of rolling disease; for, when fluid broth cultures of $L_5$ were injected intracerebrally into mice, the animals remained in good health and showed no symptoms, though $L_5$ could be grown from the brains for at least 21 days after inoculation.

When mice were injected with a mixture composed of equal parts of a culture of $L_5$ and a 20 per cent. suspension of the mouse brain infected with the S strain of lymphocytic choriomeningitis virus, the mice at once began to develop nervous symptoms 48 hours after inoculation, the symptoms being indistinguishable from those characteristic of rolling disease. The next step was to determine whether the virus played a specific or non-specific part in the genesis of rolling disease. Cultures of $L_5$ were therefore mixed with mouse brains infected with two other strains of lymphocytic choriomeningitis virus, with the neurotropic strain of yellow fever virus and with the virus of climatic bubo. Signs of rolling disease developed in the mice injected with all these viruses mixed with $L_5$, thus suggesting that no particular virus played a specific part in the production of the signs. Certain non-virus agents can also initiate the syndrome. Although, as previously mentioned, the intracerebral injection of a broth culture of $L_5$ did not produce symptoms in mice, the intracerebral injection of a suspension in saline of a serum-agar plate on which $L_5$ was growing did suffice to produce symptoms. Similarly a suspension of an uninoculated agar plate added to an equal amount of a broth culture of $L_5$ induced symptoms. The addition of either a 2 per cent. starch suspension in saline or a 20 per cent. suspension of normal mouse brain to an equal quantity of a broth culture of $L_5$ did not, however, cause symptoms.

To determine whether the rôle of $L_5$ was specific, cultures of pleuropneumonia itself and of other pleuropneumonia-like organisms, designated as $L_1$, $L_3$, and $L_4$ (cf. Klieneberger 1938) were mixed with brains of mice infected with the S strain of lymphocytic choriomeningitis virus. These mice all remained in good health, thus suggesting that the rôle of $L_5$ was specific. Since it had been shown that the ætiological agent of rolling disease might remain quiescent when inoculated in very small quantities, an effort was made to determine the effect of rapid mouse-brain passage on the pathogenicity of $L_5$. The brain of a mouse inoculated with 0·03 c.cm. of a broth culture of $L_5$ was therefore removed 48 hours after inoculation and injected into other mice, which in their turn were killed 48 hours later and had their brains removed. The third passage mice began to develop symptoms 48 hours after inoculation, some of them showing the typical rolling syndrome.

Cultures of these mouse brains yielded pure cultures of $L_5$, which on rapid passage in mouse brains again produced typical symptoms. Histologically, mouse brains inoculated with the primary cultures of $L_5$ in broth showed only small collections of polymorphonuclear leucocytes, but the brains of mice injected with subsequent passages showed progressive lesions, which finally became indistinguishable from the lesions produced by the naturally occurring rolling disease or by the inoculation of the primary culture of $L_5$ mixed with the S strain of lymphocytic choriomeningitis.

Mice which had survived an intracerebral injection of $L_5$ were subsequently found to be immune to intracerebral injection of rolling disease and vice versa. Mice which had survived an intracerebral injection either of $L_5$ or of rolling disease were not, however, subsequently immune to an intracerebral injection of the S strain of lymphocytic choriomeningitis.

$L_3$ and the agent of rolling disease retained their activity for 14 days in 50 per cent. glycerin in saline when kept in the ice-chest at +4° C. but were inactive after 30 days.

The evidence thus strongly supports the view that the cause of rolling disease is the pleuropneumonia-like organism $L_3$.

### ROLLING DISEASE IN AMERICA

During the course of the investigations outlined above Sabin (1938), in America, described a very similar disease, which was isolated from mouse brains infected with a toxoplasma that had been transferred intracerebrally for fifty passages. The symptoms, the pathological lesions, and the failure to isolate any organism on ordinary media suggested that the disease described in America was very similar to, if not identical with, the condition observed in this country. Through the kindness of Dr. Sabin two strains of the American agent were obtained, contained in dried mouse-brain material.

From Dr. Sabin's material and from the brains of mice inoculated intracerebrally with these two American strains pleuropneumonia-like organisms were isolated. These organisms are closely related to, if not absolutely identical with, the $L_3$ pleuropneumonia-like organism obtained from our mice. The close relation between the English and the American strains is shown by the following facts:—

(1) Mice which have been inoculated intracerebrally with English rolling disease and have not shown symptoms are immune when reinoculated with $L_3$, the American agent, or mouse brains infected with this agent. Similarly, mice that have not shown signs after inoculation with cultures of $L_3$, with the American agent in mouse brains, or with cultures of the American agent are immune to English rolling disease.

(2) The pathological lesions produced by intracerebral injection of $L_3$, the English rolling disease, and the American agent are identical in mouse brains, and so are the growth characteristics of organisms isolated from these mouse brains.

(3) The agents in mouse brains are all filtrable through a collodion membrane with pores of 720 mμ but not through a membrane with pores of 620 mμ: in broth cultures, however, the agents are retained by membranes of 490 mμ but pass those of 560 mμ.

(4) The agents are all inactivated by exposure to a temperature of from 40–45° C. for 30 minutes.

(5) With the exception of the field vole, *Microtus agrestis*, mice are the only susceptible animals.

The only differences so far noted are the greater virulence of the American brain-material, which invariably kills mice on intracerebral inoculation of 0·03 c.cm. in a dilution of $10^{-4}$ or $10^{-5}$. The English strain in mouse brains is virulent intracerebrally only in a dilution of $10^{-1}$ or $10^{-2}$, and the same is true of cultures of $L_3$ the virulence of which has been raised by repeated intracerebral passage. The first English strain of rolling disease isolated in 1933 was virulent, however, on intracerebral inoculation of 0·03 c.cm. of dilutions of $10^{-3}$ or $10^{-4}$. Correlated with this difference on intracerebral inoculation is a difference after intraperitoneal or intrathoracic injection. The American strains, when 0·5 c.cm. of a 20 per cent. suspension of infected mouse brain is injected into mice intraperitoneally or intrathoracically, invariably kill the animals. The first English strain, when similarly injected intraperitoneally, killed about 10 per cent. of mice, and the agent could be demonstrated thirty days later in the liver or spleens of the mice. The present English strain does not kill mice when injected intraperitoneally or intrathoracically, and the agent cannot be recovered from either the liver or spleen 3 days after inoculation. The agent does, however, survive in association with the growing cells of a carcinoma implanted subcutaneously in mice.*

### SUMMARY

A new pleuropneumonia-like organism, $L_3$, distinguished by its specific growth and serological affinities, has been isolated from the brains of mice suffering from a nervous disease that has been noted in London and New York. This disease is characterised by lateral rolling movements and pathologically by an intense polymorphonuclear leucocyte reaction in the brain, by neurolysis, and in some cases by acute hydrocephalus. The pleuropneumonia-like organism when grown in vitro in a fluid medium is incapable of initiating symptoms in mice when injected intracerebrally alone, but mixed either with a neurotropic virus or with agar or after rapid intracerebral passage its virulence is raised and typical symptoms result. Differences in virulence are noted between the English and American strains of the organism.

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## DETECTION OF HORSE-SERUM (MENINGOCOCCUS ANTITOXIN) IN BLOOD AND CEREBRO-SPINAL FLUID

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The treatment of meningococcal meningitis by injection of therapeutic serum along the intravenous or other parenteral routes as recently described by Banks (1938) raises in a special form the general problem of the "blood-brain barrier."

It is generally accepted that colloids pass from blood to cerebro-spinal fluid (C.S.F.) across healthy meninges only in minute amount, if at all, though they may do so more freely when these membranes are diseased (Katzenellenbogen 1935). According to the early work of Widal and Sicard (1887) typhoid antibodies failed to enter the C.S.F. during human typhoid fever. Hektoen and Carlson (1910) found that in dogs passively or actively immunised to various organisms and foreign red blood-cells only traces of hæmolysins and no agglutinins traversed the meningeal barrier. Ponomarew and Kanarevskaja (1936) injected egg-white and horse-serum into healthy rabbits and dogs and found that the specific antibodies appearing in the blood did not reach the C.S.F.

On the other hand, according to Freund (1930) typhoid antibodies in passively immunised rabbits could be detected in the C.S.F. at 0·1 to 0·4 per cent. of the concentration prevailing in the blood. Also, the passage of iso-hæmagglutinins into the C.S.F. has been proved in 21 out of 156 human subjects by Parr and Goodale (1934), but positive results were not commoner among cases of tuberculous and influenzal meningitis than among cases with normal meninges. Similarly, Friedemann and Elkeles (1934) showed in healthy rabbits that certain toxins—e.g., cobra venom—can pass the blood-brain barrier, whereas others—e.g., diphtheria antitoxin—cannot.

* Dr. Sabin, who was informed of our results, has now written from the Rockefeller Institute, New York, that he too has isolated a pleuropneumonia-like organism from the brains of mice showing symptoms of rolling disease. In broth cultures Dr. Sabin has obtained evidence that the organism produces an exotoxin which injected intravenously in doses of 0·5 c.cm. in three-weeks-old mice causes all the nervous symptoms set up by the organism itself.

Yet in monkeys with induced anterior poliomyelitis Shaughnessy, Grubb, and Harmon (1937) showed that diphtheria antitoxin alone out of a large range of antibodies passed the blood-brain barrier. Lemaire and Debré (1911) found that subcutaneous morphine increased the permeability of dogs' meninges to intravenously injected tetanus antitoxin. Also, Flexner and Amos (1918), after inducing sterile meningitis in monkeys by intrathecal administration of horse-serum, observed the passage of poliomyelitis antibodies into the C.S.F. Again, Le Fèvre de Arric and Millet (1926) increased the permeability of rabbits' meninges to the virus of herpetic encephalitis by intrathecal injection of urotropine, sodium salicylate, and bile salts. But according to Vio (1936) "sensitising substances," such as horse-serum, urea, and theophyllin, administered intrathecally to animals immunised against *Bact. typhosum*, do not enable typhoid antibodies to cross the meningeal barrier.

In view of these discrepancies in previous work it was clearly desirable to discover what proportion, if any, of therapeutic serum, administered parenterally to patients suffering from meningococcal meningitis, reached the C.S.F. Since there is no simple method of assaying meningococcal antitoxin, it was thought that a test for the presence of the antitoxin-containing horse-serum in the body-fluids of subjects injected with the serum would furnish at least an indication of the presence of antitoxin. Such a test was provided by the following adaptation of the precipitin reaction.

### TECHNIQUE

Two rabbits were given, twice weekly, intravenous injections of the antitoxic serum in use at the Park Hospital (Parke, Davis and Co. Meningococcus Antitoxin, hereinafter called A.S.) in doses ranging from 0·2 to 3·5 c.cm. over a period of six weeks. At the end of this time, since the rabbits' sera gave perceptible precipitin formation by the technique below described against dilutions of 1/225,000 and 1/270,000 of A.S., the animals were killed and their combined serum preserved by the addition of 1 per cent. boric acid. The pooled serum gave just perceptible precipitation with a 1/240,000 dilution of A.S.; it is hereinafter referred to as P.S. (precipitating serum).

In testing for horse-serum in specimens of body-fluids, such as C.S.F. and blood-serum, the following procedure was adopted.

Dilutions of the body-fluid, proceeding by 50 per cent. differences of C.S.F., by 100 per cent. differences of blood-serum, were set up in a series of scrupulously cleaned test-tubes (3 by 5/16 in.). A negative control tube containing a human serum or C.S.F. definitely free from horse-serum was always included in the series. 0·2 c.cm. of a 1/12 dilution of P.S. was then pipetted to the bottom of each tube and the tube-rack placed in the 38·4° C. incubator for one hour, after which results were read in a dark-room in front of a bright lamp fitted with a ground-glass screen. A positive test was indicated by all degrees of precipitin formation from a milkiness pervading the whole liquid to a hazy ring at the junction of diluted body-fluid and rabbit serum. The last tube with a perceptible reaction was noted. If the dilution of body-fluid in this tube was, for example, 1/400, then, since P.S. gave a just perceptible reaction with A.S. diluted to 1/240,000, the dilution of A.S. in the raw body-fluid was 400/240,000 = 1/600. The accuracy of the above method was checked by using it to estimate known amounts of A.S. added to healthy human serum and to healthy and abnormal C.S.F. Calculated and known amounts agreed within the limitations of the technique. In the Table and Charts the figures for horse-serum concentrations are calculated as parts per 100,000 of C.S.F. or serum; but, in view of the difficulty of exactly gauging the end-point of the precipitin test and the rapid steps in dilution of the body-fluids (50 per cent. differences for C.S.F., 100 per cent. differences for serum), the figures have been non-committally called "units" to avoid the implication of exact quantitative measurement.

In only one specimen of C.S.F. from a recent recipient of A.S. was the "zone phenomenon" observed at a very low dilution of the fluid, which contained but a trace of A.S. protein. The phenomenon

TABLE GIVING DETAILS OF SERUM TREATMENT WITH RESULTANT SERUM CONCENTRATION IN C.S.F. OF 23 CASES OF MENINGOCOCCAL MENINGITIS

(*a*) = Number of case and sex. (*b*) = Age.
(*c*) = Days after admission on which serum was given.
(*d*) = Dose of A.T.S. (c.cm.).
(*e*) = Number of serum estimations on C.S.F.
(*f*) = Highest concn. of serum in C.S.F. (units).
(*g*) = Ratio $\frac{\text{Serum serum}}{\text{C.S.F. serum}}$ at time of highest concn. in C.S.F.

| (*a*) | (*b*) | (*c*) | (*d*) | (*e*) | (*f*) | (*g*) | — |
|---|---|---|---|---|---|---|---|
| 1 M | 5 mos. | 1st<br>2nd | 90 iv<br>90 iv | 2 | 24·0 | — | Died 3rd day; yellow exudate over brain |
| 2 F | 9 mos. | 2nd | 90 ip* | 4 | 12·3 | — | Recovered |
| 3 M | 11 mos. | 1st<br>2nd<br>3rd | 90 ip<br>90 ip<br>90 ip | 3 | 10·6 | — | Recovered |
| 4 F | 1 yr. 7 mos. | 1st | 90 iv | 3 | 6·6 | — | Recovered |
| ‡5 M | 1 yr. 11 mos. | 6th | 120 iv | 5 | 7·0 | — | Recovered |
| 6 M | 2 yrs. 6 mos. | 1st | 90 ip | 3 | 4·7 | — | Died 3rd day; Pm. showed very little meningitis |
| 7 M | 2 yrs. 8 mos. | 1st<br>2nd | 90 iv<br>60 iv | 5 | 4·7 | — | Recovered |
| 8 F | 4 yrs. | 1st<br>2nd | 90 iv<br>90 iv | 3 | 16·3 | — | Recovered |
| 9 F | 4 „ | 1st<br>2nd | 120 iv<br>120 iv | 4 | 7·3 | 568·1 | Recovered |
| 10 F | 4 „ | 1st | 90 iv | 4 | 10·7 | 154·3 | Recovered |
| 11 F | 4 „ | 1st<br>3rd | 90 iv<br>60 iv | 2 | 10·7 | — | Recovered |
| 12 M | 5 „ | 1st | 90 iv | 2 | 6·6 | — | Recovered |
| 13 F | 6 „ | 1st<br>2nd | 90 iv<br>90 iv | 3 | 8·3 | — | Recovered: *Staph. albus* in C.S.F. |
| 14 M | 8 „ | 1st | 120 iv† | 5 | 10·6 | 518·7 | Recovered |
| 15 M | 15 „ | 1st<br>2nd | 120 iv<br>90 iv | 3 | 20·0 | 53·3 | Recovered |
| 16 M | 18 „ | 1st | 120 iv | 3 | 0·7 | 625·0 | Recovered |
| 17 M | 28 „ | 1st<br>2nd | 120 iv<br>90 iv | 4 | 7·0 | 595·2 | Recovered |
| 18 M | 29 „ | 1st | 120 iv | 1 | 2·0 | 800·0 | Recovered |
| 19 M | 29 „ | 1st<br>2nd | 120 iv<br>90 iv | 2 | 1·0 | 104·2 | Recovered |
| 20 M | 38 „ | 1st<br>2nd<br>3rd | 120 iv<br>120 iv<br>120 iv | 4 | 4·3 | 39·5 | Died 44th day internal hydrocephalus |
| 21 F | 38 „ | 1st | 120 iv | 2 | 1·7 | 125·0 | Recovered |
| 22 F | 47 „ | 1st<br>2nd | 120 iv<br>90 iv | 4 | 10·8 | 77·9 | Recovered |
| 23 F | 55 „ | 1st<br>2nd | 120 iv<br>90 iv | 4 | 6·7 | 40·0 | Recovered |
| 24 F | 61 „ | 1st<br>2nd | 90 iv<br>120 iv | 2 | 7·0 | 238·0 | Recovered |

* 10 c.cm. serum given intramuscularly on day before admission.
† 120 c.cm. A.T.S. given intravenously on day before admission.
‡ Observations extend till 12th day when serum was given intrathecally (see Curve E, Fig. 2).
iv = intravenous. ip = intraperitoneal.
A.T.S. = Parke, Davis and Co.'s meningococcus antitoxin.
Serum = therapeutic serum against the meningococcus of unknown origin.

also occurred in low dilutions of a C.S.F. from a patient not yet injected with A.S. but who was later found to have received horse-serum in the form of diphtheria antitoxin two months previously.

### COMMENT ON TECHNIQUE

It was realised that the P.S. must contain precipitins in unknown proportions to all the proteins of horse-serum. Now, by analogy with other antitoxins, meningococcus antitoxin is probably associated with the pseudoglobulin moiety of horse-serum. It was therefore important to discover whether the precipitin test indicated the presence of pseudoglobulins, or at any rate of globulins, as opposed to the other protein constituents of the A.S. This problem was attacked by three separate methods :—

(1) The albumins and globulins of a sample of the A.S. were separated by salting out, and each group of proteins was redissolved in normal saline in the concentration in which it was present in the original serum. Dilutions of the albumin and globulin solutions were titrated against the P.S. The albumin solution gave a visible reaction only up to a dilution of 1/30,000, the globulin solution up to a dilution of 1/195,000. It therefore appears that this P.S. is far richer in precipitins for globulin than for albumin.

(2) Dr. Hewitt of the L.C.C. Antitoxin Laboratory, Sutton, using a technique of selective precipitation, finds that there is in our P.S. ten times as much precipitin to horse pseudoglobulin A as to horse crystalbumin. Though the proportion between these two precipitins is not necessarily that between the total precipitin for horse globulin and the total precipitin for horse albumin, this finding supports our own described in method (1).

(3) Again, Dr. Hewitt has found horse pseudoglobulin A and horse crystalbumin present in the C.S.F. and serum of four patients injected with A.S. The figures given by the precipitin test for total horse protein in these fluids tally with those given by him for pseudoglobulin A, but not at all with those for crystalbumin. This observation further confirms that the precipitin test is a better indicator of horse globulin than of horse albumin and can be trusted to assess approximately antitoxin linked to horse globulin.

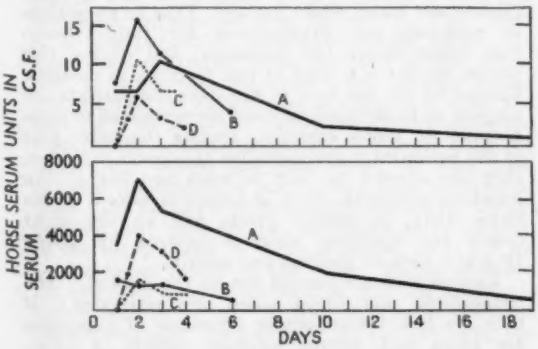


FIG. 1—Curves showing the concentration of horse-serum in the cerebro-spinal fluid and serum of four patients with meningococcal meningitis after intravenous injection. The doses were as follows :—

*Curve A* (Patient No. 14 in the Table).—Male aged 8. On admission: 120 c.cm. at 11 P.M. First day: 90 c.cm. at noon.

*Curve B* (Patient No. 10).—Female aged 4. First day: 90 c.cm. at 6 P.M.

*Curve C* (Patient No. 22).—Female aged 47. First day: 120 c.cm. at 5 P.M. Second day: 90 c.cm. at noon.

*Curve D* (Patient No. 9).—Female aged 4. First day: 120 c.cm. at 10 P.M. Second day: 120 c.cm. at noon.

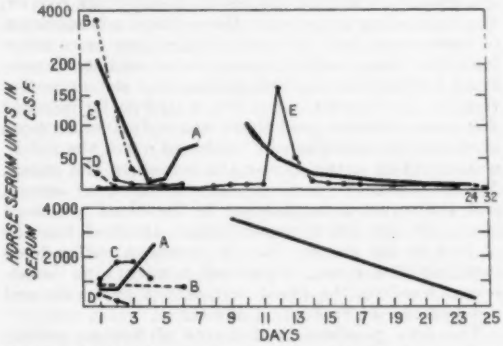


FIG. 2—Curves showing the concentration of horse-serum in the cerebro-spinal fluid and serum of five patients who received horse-serum (meningococcus antitoxin) intrathecally, as well as by other parenteral routes.

*Curve A.*—Female aged 15. Day before admission 20 c.cm. intrathecally. First day: 105 c.cm. intravenously. Second day: 90 c.cm. intravenously. Fourth and fifth days: 150 c.cm. intravenously. Eighth day: 10 c.cm. by intraventricular injection.

*Curve B.*—Male aged 22. Two days before admission: 25 c.cm. intrathecally. Day before admission: 125 c.cm. intrathecally. First day: 120 c.cm. intravenously.

*Curve C.*—Male aged 15. Day before admission: 120 c.cm. intrathecally and 20 c.cm. intramuscularly. First day: 120 c.cm. intravenously.

*Curve D.*—Male aged 17. Two days before admission: 9 c.cm. intrathecally and 51 c.cm. intravenously.

*Curve E* (Patient No. 5 in Table).—Male aged 1 yr. 11 mos. Seventh day: 120 c.cm. by intraperitoneal injection. Twelfth day: 70 c.cm. intravenously and 20 c.cm. intrathecally.

### DISCUSSION OF RESULTS

In the accompanying Table are set out the results of the foregoing technique in 23 cases of meningococcal meningitis and in one case (No. 13), from which a strain of staphylococcus was alone isolated. All these patients received meningococcus antitoxin (Parke, Davis and Co.) only by parenteral, usually intravenous, injection. In every one horse-serum protein was detected in the C.S.F., though its concentration varied greatly from case to case and was always very small compared with the simultaneous concentration in the blood. The values of the ratio

$$\frac{\text{Horse-serum in blood}}{\text{Horse-serum in C.S.F.}}$$

agree well with the already quoted findings of Freund for typhoid antibodies.

Allott (1938) in a large series of cases, including the 24 of this investigation, finds similar variations of sulphanilamide content in the C.S.F. in spite of equivalent dosage, but in contrast with the behaviour of horse-serum the sulphanilamide concentration in the C.S.F. rapidly approximates during the first twelve hours after administration to that in the circulating blood.

There is no apparent correlation between age and the permeability of the blood-brain barrier to horse-serum, though this barrier may have varied with the intensity of the meningitis. For example, Nos. 16, 18, and 21, clinically mild cases, yielded very low amounts of serum in their C.S.F. All these patients were receiving sulphanilamide as well as therapeutic serum, and this drug may act as a "sensitising substance"

and modify in various degrees the blood-brain barrier. Fig. 1, showing graphically the relative concentration of horse-serum in C.S.F. and blood of four cases taken from the Table, well illustrates the unpredictable relations between horse-serum dosage and its concentration in blood and C.S.F. No. 9 (Curve D) received 240 c.cm. of serum, and there was a distinct increase of serum concentration in the blood; yet the C.S.F. concentration attained was the lowest in the group. No. 10 (Curve B) received only 90 c.cm. of serum, and the serum concentration in the blood remained low; yet the C.S.F. concentration attained was the highest in the group. No. 14 (Curve A), after doses totalling 210 c.cm., registered a very high horse-serum level in the blood but only a moderate and delayed rise of content in the C.S.F.

The long persistence of traces of foreign protein both in the blood and in the C.S.F. is well shown by Curve A (Fig. 1) and Curves A and E (Fig. 2).

Fig. 2 shows graphically the horse-serum concentrations in the C.S.F. and blood of five subjects who received intrameningeal as well as parenteral injections of serum. The enormous advantage of the former route in ensuring the immediate presence of large amounts of antibody at the site of infection is very obvious from these curves; yet equally striking is the steepness of the drop in serum concentration from the heights reached by intrameningeal dosage. Within one or two days, however large the dose, the C.S.F. serum content has fallen to the low levels attainable by parenteral administration alone.

Also shown in Fig. 2 is a curve depicting the highest serum concentration in the C.S.F. reached in this series of observations as the result of parenteral administration alone. The curve (A), after falling nearly to the base line on the fourth day, rises to a level of over 70 units on the seventh; but about 500 c.cm. of intravenous serum were needed to achieve this result.

SUMMARY

(1) A precipitin test is described for detecting and approximately estimating horse-serum in the blood and cerebro-spinal fluid of patients injected with meningococcus antitoxin. (2) Reasons are advanced for regarding this test as a better indicator of globulins, with which antibodies are usually associated, than of other proteins in the horse-serum. (3) In every one of 24 patients receiving therapeutic serum by routes other than the intrathecal the cerebro-spinal fluid contained horse-serum protein, but only in very small and variable amounts, whose local therapeutic effects must have been correspondingly slight.

My especial thanks are due to Dr. J. E. McCartney, director of research and pathological services, London County Council, for suggesting this research; to Dr. H. S. Banks, medical superintendent of the Park (L.C.C.) Hospital, for providing clinical samples and facilities; and to Mr. L. F. Hewitt, Ph.D., of the Belmont Antitoxin Laboratories, Sutton, for carrying out several laborious protein estimations.

The London County Council are in no way responsible for any statements or views expressed in this article.

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# MILES'S ABDOMINO-PERINEAL OPERATION

## TREATMENT BEFORE AND AFTER

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THE successful treatment of cancer of the rectum by abdomino-perineal resection of the affected area and its lymphatic drainage, as devised by Miles in 1908, depends not only on the technique of the operation, but also on pre- and post-operative care. Neglect of this care is so often responsible for an unhappy fatality that a detailed account of it may be useful.

### PRE-OPERATIVE TREATMENT

Patients with a minimal amount of obstruction, as shown by periodic constipation and diarrhœa and perhaps some slight abdominal distension, are admitted at least ten days before the date of operation. Those with more obstruction have longer preliminary treatment, and in over 90 per cent. of cases a first-stage cæcostomy can be avoided.

On the morning of admission the patient is given 1 oz. of mist. alba, followed by hourly ½ oz. doses for five hours. A further ½ oz. of the mixture is given on each succeeding day until forty-eight hours before the operation. Each morning and evening the patient is given a rectal wash-out with about 1½ pints of plain water, the last treatment being on the morning before the day of operation. In giving the rectal wash-out it is often impossible, because of the obstruction caused by the growth, to run in more than a few ounces at a time.

During this period the patient is fed on a normal diet with the addition of plenty of fluids and glucose. On the day before the operation a light diet is instituted, and on the following morning a glass of glucose and barley water is given. Thus no purgatives or wash-outs are administered for fully twenty-four hours before the operation, and during this period the bowel is kept at rest as much as possible. Except for the last four or five days the patients are allowed up in the usual way and are permitted to leave hospital for gentle exercise. During the latter part of the preliminary pre-operative treatment, however, they are allowed up only to wash and bathe. An intestinal antiseptic, such as Dimol or salol 5 grains twice daily, is usually given, and on the night before the operation sleep is assured by giving 10 grains each of Medinal and aspirin.

Various tests are carried out on the patient. The hæmoglobin and blood count are estimated; if they are low, intramuscular injections of Campolon are given and ferrous sulphate tablets, 2 t.d.s., administered by mouth. In severe cases of anæmia 1 or 2 pre-operative transfusions are of benefit in making the patient safe for operation. The urea

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concentration and the blood-urea are determined. In cases in which the results are above the borderline of safety an extended period of preliminary treatment helps to bring these values nearer to normal, and especially the blood-urea is lowered by the relief of the intestinal obstruction. In all cases a Wassermann test is carried out and the urine examined.

A useful index of the safety of the operation is the cardiac index, which is the quotient obtained by dividing the pulse pressure by the diastolic pressure and multiplying the result by 100. A patient with an index of less than 25 is a very severe risk, the operation usually being fatal, and the mortality is increased when the quotient is above 75.

In cases admitted with acute obstruction, or in which it develops during the preliminary treatment of cleaning the bowel, a cæcostomy must be performed at once; and, after the bowel has been drained for several days, wash-outs can be carried out through this opening as well as through the rectum.

An hour before the operation a hypodermic injection of Omnopon gr. ½ and scopolamine gr. 1/150 is given, and shortly afterwards a catheter is passed and is retained. This is essential so that the bladder may be completely emptied when the patient is on the table, for any distension whatsoever materially hinders the manipulations deep down in the pelvis at the operation. The patient is anæsthetised in bed with Pentothal sodium; intravenous anæsthesia and spinal anæsthesia are given in the theatre with a 1 in 1500 solution of Percaine, the Etherington Wilson technique being used. After this, pressure is made with the fist on the suprapubic region and the catheter is slowly withdrawn. It is necessary to maintain pressure until the withdrawal is complete, for, if this is not done, air is sucked into the bladder, and the hindrance produced by this is the same as if the organ were filled with urine.

### POST-OPERATIVE TREATMENT

At the end of the operation the perineal wound is packed with roller gauze, a large square of oiled silk first being invaginated into the cavity. This latter is a semi-permeable membrane which allows the blood-stained exudate to be absorbed by the gauze, and, as it prevents the latter from adhering to the raw walls of the cavity, pain is eliminated when the packing is withdrawn. Before the patient leaves the theatre, the terminal colostomy is opened after the laparotomy wound has been sealed off with oiled silk and Elastoplast to prevent any fæcal contamination. The patient is transferred to his bed (a Fowler-position bed with divided mattresses helps nursing) in the theatre, and, if shock is severe, he is put up on blocks on return to the ward. These, however, are removed as soon as possible, and the patient is encouraged to sit up. A firm mattress is the most satisfactory—far more so than an air-containing one—and fracture-boards may be used if necessary.

All patients are immediately given a blood transfusion of 1 pint. However high the blood count was before the operation, and however little blood has been lost, the post-operative shock is more easily controlled by this transfusion than by the administration of a similar quantity of saline. The blood is run in at the rate of about twenty drips to the minute; and, when this has run through, a continuous saline and glucose transfusion is instituted. At this hospital the Baxter Vacoliter is used, because of the ease with which it may be set up and the complete absence of any reaction.

In most cases it is unnecessary to cut down on the vein if a Jubé's trocar and cannula are used, and to aid nursing this is inserted into one of the leg veins, usually the internal saphenous. This continuous drip is maintained for forty-eight hours, during which some 7–8 litres of fluid are run in, and over this period the patient is allowed nothing whatsoever by mouth. The reaction of the bowel after manipulation at any operation is towards an immediate post-operative ileus, which subsides towards the end of forty-eight hours. If this is disturbed in any way, even by the administration of fluid by mouth during this period, the ileus of the bowel is not diminished but is increased and tends to persist. The natural inactivity of the bowel is further aided by soothing the restlessness and pain of the patient by injections of omnopon. Throughout this first forty-eight hours frequent mouth-washes are given and the patient is comforted by rinsing with such fluids as lemon and warm tea. He is also allowed to chew lumps of raw pineapple and chewing-gum, but it must be emphasised to him that nothing must be swallowed.

There are two points in the nursing that need mention. The patient should on no account be allowed to remain on his back for more than six hours, and at the end of this time he must be nursed for a period on his side. If this period is exceeded, even in patients with apparently normal arteries there is a tendency for the perineal wound to become gangrenous and to slough round the area that is sewn up after the operation. Secondly, when the patients are lifted they must be raised by arms placed behind the knees and round the chest, for the perineal wound is readily torn if any drag is placed on the upper part of the thighs or buttocks.

The question of attention to the bladder arises after about eight hours. At the operation the presacral nerve is divided with the object of interrupting the sympathetic supply to that organ and thus avoiding any post-operative spasm of the sphincter. It must be admitted, however, that this is by no means always successful. The patient should be encouraged to micturate some eight hours after the operation, because, if the bladder is allowed to become too full, there is a danger of the newly formed pelvic floor being stretched or even torn. Moreover, the normal tone of the bladder is lost for some days if it is allowed to become abnormally distended at any time. Subcutaneous injections of Esmodil are administered to encourage micturition, but if these fail the patient should be catheterised. This must be done with all normal aseptic precautions, and it is well to wash the bladder after each catheterisation with a 1 in 10,000 solution of oxycyanide of mercury. The catheterisation must be repeated if necessary every eight hours, but this is very seldom required for more than a day or so.

During this early post-operative period digoxin is administered intravenously in 5 mg. doses if the patient's pulse is excessively rapid or irregular, and Coramine is given as required. The patient is encouraged from the first to carry out deep-breathing exercises.

At the end of forty-eight hours the patient starts to take fluids by mouth. At first sterile water in 2-oz. doses is given hourly for eight hours, and for the succeeding similar period 4-oz. drinks are allowed. At the end of this time the amount is gradually increased and varied with milk, beef-tea, and glucose-lemonade, and about the fourth day a light diet is instituted and gradually increased.

During the first forty-eight hours the superficial perineal dressings may need replacing, the packing being removed in three portions, a third being taken out at the end of 48 hours, a third at the end of 60 hours, and the remainder at the end of 72 hours, after which no packing whatsoever is placed in the cavity. With the final third the oiled silk also is removed, and irrigations of the large cavity are started. Three pints of fluid run in from a douche-can held at a height of about 2 ft. are used. First, a pint of hydrogen peroxide is used, and this is followed by a pint of a 1 in 500 solution of perchloride of mercury, the excess being washed away with a pint of normal saline. It is essential that the irrigating catheter be introduced high up into the cavity, especially into the potential space formed between the new pelvic floor and the hollow of the sacrum, for here exudate is apt to loculate and become infected, with resulting spread of infection behind the peritoneum and eventually infection of the whole peritoneal space.

At the end of the first week an iodine solution, consisting of 2 drachms of tincture of iodine dissolved in a pint of water, is substituted for the perchloride, and finally, from the third week onwards, wash-outs are continued with a mixture of half this strength, the peroxide and saline being omitted.

The colostomy usually works spontaneously about the second day, but in any case on the fourth night after operation an aperient consisting of confection of senna (pulv. senn. folia, pulv. rad. jalap., sulph sub., āā gr. 3 theriacæ nig. ad ʒi) is given, and on the next morning colostomy wash-outs begin. During the first fortnight or so, until the bowel begins to work regularly, a pint of soft-soap solution is used, but this is subsequently replaced by normal saline. It is unnecessary to give any aperients with these wash-outs. In an attempt to control the action of the bowel by purgatives no regularity can be assured, and the patient may have several actions during the day. But, if the colostomy be washed out regularly in the morning, the bowel can be completely emptied and, except for a very rare irregularity, is clear until the following day.

If Michel's clips are used for the abdominal incision, alternate ones are removed twenty-four hours after the operation, and the rest in forty-eight hours, the deep sutures remaining until the eleventh day. If a "cracker" dressing is used, this is removed on the fifth day, and the skin sutures are taken out on the eleventh.

About the tenth day the colostomy is trimmed. By this time close adhesions have formed between the bowel wall and the abdominal musculature, and then there is no danger of the colostomy, when cut off almost flush with the skin surface, falling back into the peritoneal cavity. Subsequently fomentations are applied to the colostomy for a few days to clear up the surrounding inflammation that is usually present. No anæsthetic is needed for trimming the colostomy, but care must be taken not to drag on the bowel and cut through at a level which will subsequently retract into the abdominal cavity.

From the twelfth day onwards a finger is passed into the colostomy each day to prevent any obliteration of the lumen by contraction of the surrounding structures.

About this time the patient is allowed up, and the perineal cavity rapidly grows small. Any tendency to epithelialisation of the cavity by ingrowth from the surface is controlled with silver nitrate, and in 7–8 weeks the wound has healed. Unless the patient is instructed on his discharge to refrain from sitting in a plumb position equally on both buttocks, the wound, while still delicate, will often split.

The patient before his discharge is measured and fitted with a colostomy belt, one with a very shallow cup being chosen. In addition, for ease in washing his colostomy, he is provided with a Miles's modification of a Nitch horn.

### COMPLICATIONS

It is unnecessary to detail all the post-operative complications, for many of these are those of any abdominal operation; but a few need mention. The dangerous period for these patients is between the third and fifth days. During this time the intestines and stomach often become distended and the patient may vomit. Acetylcholine is immediately administered two-hourly, all fluids by mouth are stopped, and the intravenous drip is set up again. Severe vomiting necessitates the stomach being washed out, and a small tube may be left in, so that any fluid that reaccumulates can easily be withdrawn. Sedatives are administered to combat the restlessness, and most patients respond to this treatment. Intravenous injection of Pituitrin has not yet been tried.

A reactionary hæmorrhage sometimes starts in the perineal wound. The bleeding point must be ligatured, and any oozing responds to swabbing with adrenaline. A second blood transfusion should be given if necessary.

In patients with arterial degeneration sloughing of the colostomy sometimes occurs. This necessitates the immediate trimming of the colostomy proximal to the area of gangrene in an endeavour to stop the spread. Usually it is successful. Sometimes the gangrene progresses, and the result is perforation of the bowel with either general peritonitis or a localised abscess. Peritonitis will be fatal, but an abscess may be drained and the patient may recover.

Sloughing of the perineal wound responds to treatment with hot fomentations, followed by spirit dressings, and a clean granulating area results, with rapid healing.

By closely following this routine treatment it is possible in expert hands to reduce the mortality of this very successful operation to about 10 per cent.

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# MACROCYTIC ANÆMIA OF THE ACHRESTIC TYPE

## A CASE DESCRIBED

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The experience of Sir James Paget, who said that whenever he heard of a new disease he looked in his case-books and found it there, is shared sometimes by less distinguished observers. We here record a case which in retrospect seems to possess the characteristics of achrestic anæmia.

Achrestic anæmia as defined by Wilkinson and Israëls (1936) is "a severe hyperchromic, megalocytic anæmia due to lack of utilisation or mobilisation from the storage depôts in the body of the anti-pernicious anæmia principle as found in the liver." The chief characteristic is a poor response, and

finally no response, to liver therapy. In most cases free hydrochloric acid is present in the gastric juice and the central nervous system is not involved; sore tongue, gastro-intestinal disturbance, and pyrexia are absent and there is little tendency to bleed or evidence of hæmolysis. The van den Bergh reaction is negative or gives an indirect or delayed direct response. There are no spontaneous remissions as in pernicious anæmia, and the course is slowly progressive. The morbid anatomy resembles that of pernicious anæmia with megaloblastic hyperplasia of the bone-marrow; adequate anti-anæmic principle is present in the liver.

This condition was distinguished from other forms of megalocytic anæmia by Wilkinson and Israëls, who described and named it in 1935 with reports of seven cases, one of which came to autopsy. In 1936 they discussed it in greater detail and reported one new case and the further history and autopsy findings of three cases from their previous paper. They reviewed seven possible cases collected from the literature and concluded that only one, described by Kennedy (1931), could be diagnosed retrospectively as achrestic anæmia. In these first reports all the cases showed the presence of free gastric hydrochloric acid and absence of involvement of the central nervous system, but in 1938 Wilkinson and Israëls included in the group cases with achlorhydria in which the central nervous system was affected, reporting one as "achrestic-type anæmia." Achrestic anæmia appears to be a clinical entity with definite diagnostic criteria and pathology, but few examples have been reported since it was first described. Abrahamson and Thompson (1937) reported one case, Dameshek and Valentine (1937) two of "achrestic type," and Davidson and Fullerton (1938) one possible case. The condition is rare, but will no doubt be recognised more often in future.

The case described below was under observation for 1 year 9½ months, and came to autopsy. It showed the diagnostic characteristics laid down by Wilkinson and Israëls except that unfortunately the presence of the anti-anæmic principle in the liver was not ascertained.

### PATIENT'S FIRST STAY IN HOSPITAL

The patient, a woman of 65, first attended the out-patient department of the New Sussex Hospital on April 2nd, 1931, and was admitted under the care of one of us (G. M. W.) on April 10th. She complained of breathlessness, weakness and attacks of precordial pain radiating to the left shoulder. For many years she had been breathless on exertion and 9 months previously (July, 1930) had been obliged to give up her work as a teacher. The symptoms had become worse during the past 6 months, and in the last few weeks she had suffered from sudden loss of vision, giddiness, vomiting, and attacks of pain in the chest and left arm. Her past medical history included rheumatic fever at 22, hysterectomy at 30 for "flooding" caused by fibroids, and recurrent bronchitis. She had had pins-and-needles in her feet for some months, and pernicious anæmia had been diagnosed in Paris more than ten years previously.

She was a small woman with considerable subcutaneous fat, weighing 7 st. 9 lb., pale, flabby, and dyspnœic at rest. The skin was a light brownish-yellow, the tongue was pale and lightly furred and had never been sore. The heart was enlarged beyond the right sternal margin and almost to the left anterior axillary line; a hæmic murmur was heard at all areas; the pulse-rate was 112 per min., blood pressure 132/70 mm. Hg, respiration-rate 32 per min. The chest was emphysematous, and rhonchi were heard at the roots and bases of both lungs. The spleen and liver were not palpable. Examination of the central nervous system was negative. The urine was acid, with a specific gravity of 1016 and a trace of albumin. A fractional test-meal showed normal gastric acidity: free HCl. 10 fasting and 25, 35, 40, 20, 15, 15 units; total acidity 20 fasting, 35, 45, 50, 30, 25, 25 units at successive thirty-minute samples. The van den Bergh reaction was negative. The blood count the day after admission was:—

| | | | |
|---|---|---|---|
| Red cells .. .. | 807,200 | Polymorphs .. .. | 54% |
| Hæmoglobin .. | 20% | Eosinophils .. .. | 2% |
| Colour-index .. | 1·2 | Small lymphocytes .. | 36% |
| White cells .. .. | 4,300 | Large lymphocytes .. | 4% |
| | | Hyalines .. .. | 4% |

Numerous thrombocytes present, including giant forms. Anisocytosis, poikilocytosis, and polychromatophilia marked; megaloblasts present.

The diagnosis at this time was atypical pernicious anæmia. The course of the case in relation to treatment is shown in the accompanying Chart. Lightly cooked fresh liver and liver extract were given orally, making together ½ lb. daily. Marmite was added in May, also iron and arsenic, and the liver was increased to ¾ lb. a day in June. At first there was a small reticulocyte response to a maximum of 5·5 per cent. shown in the chart as a peak; the red cells slowly and steadily increased, dropping only once when the patient had a sore-throat and adenitis, and after 12 weeks had reached three millions. During her first three weeks in hospital there was irregular pyrexia up to 100° F., during the second three weeks the temperature was more often normal and only reached 99° F., and after this it was normal or subnormal. It is possible that this slight fever was due to subacute bronchitis.

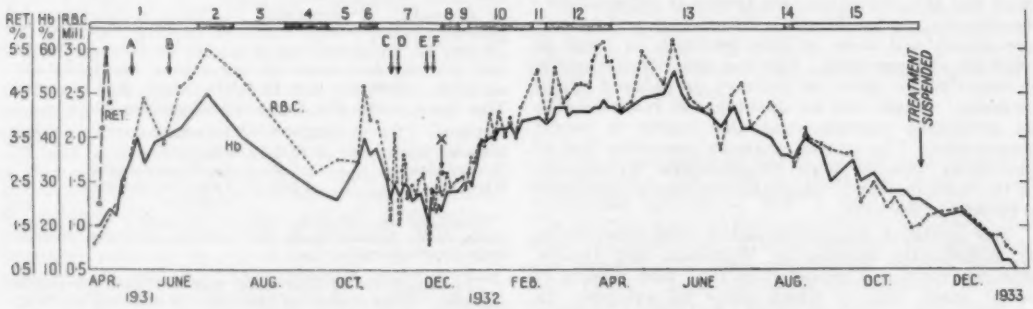
The patient left hospital on July 7th. Her general condition was much improved, and her red cell count was 3,008,000 per c.mm., with hæmoglobin 50 per cent. and colour-index 0·83. She continued to take liver extract, cooked liver, and iron as an out-patient for three weeks, and then omitted the liver extract from July 31st till Sept. 1st, taking only cooked liver. In September she took both, but there was little or no improvement. On Oct. 3rd her red cell count was 1,760,000, Hb. 26 per cent., C.I. 0·74, and she was readmitted.

### SECOND STAY IN HOSPITAL

At first the patient responded well to oral administration of liver extract and raw liver in sandwiches together with iron. The blood count on Oct. 24th was: red cells 2,592,000, Hb. 40 per cent., C.I. 0·78. She then contracted a cold and for a week could not be persuaded to take the liver extract. On Nov. 9th and 10th she had severe attacks of epistaxis and the count on Nov. 12th was: red cells 1,164,000, Hb. 26 per cent., C.I. 1·16. A blood transfusion of 550 c.cm. was given on Nov. 13th, which raised the red cells to just over two million. This improvement was not maintained, although the oral administration of liver extract was resumed and six daily subcutaneous injections of 1·1 c.cm. of a liver extract were given. In December the fæces were examined for parasites, with negative results.

On Dec. 9th the blood count had fallen to: red cells 796,000, Hb. 20 per cent., C.I. 1·2. Another blood transfusion of 600 c.cm. followed by an intravenous injection of 5 c.cm. of Hepatex improved it to: red cells 1,664,000, Hb. 25 per cent., C.I. 0·75 on Dec. 15th. Seven intramuscular injections of 5 c.cm. of hepatex were given between Dec. 17th and 30th (total 35 c.cm.) and on the 31st the blood count was: red cells 1,544,000, Hb. 28 per cent., C.I. 0·93. The hepatex was then given daily until Jan. 2nd (20 c.cm.) with no improvement, but after a further 130 c.cm., given in 5 c.cm. injections every two or three days from Jan. 4th to Feb. 21st, the red cells numbered 2,784,000, Hb. 45 per cent., C.I. 0·81. Two c.cm. of Campolon were given every day until March 2nd (16 c.cm.), but as there was a slight fall in the blood count the 5 c.cm. doses of hepatex were resumed and

CHART SHOWING BLOOD FINDINGS AND TREATMENT GIVEN




Changes of treatment are indicated by the numbers at the top of the chart, as follows:—

| PERIOD | TREATMENT |
|---|---|
| 1. | Lightly cooked liver and liver extract, equivalent to ½ lb. daily. Iron and arsenic. Marmite added at A. Liver increased to ¾ lb. daily at B. |
| 2. | Cooked liver and liver extract only. |
| 3. | Cooked liver only. |
| 4. | Cooked liver and liver extract. |
| 5. | Raw liver and extract with iron. |
| 6. | Raw liver only. |
| 7. | Liver extract. Blood transfusion of 500 c.cm. at C. Six daily injections of liver extract given from D. Blood transfusion of 600 c.cm. at E. At F 5 c.cm. hepatex given intravenously. |
| 8. | Seven intramuscular injections of hepatex 5 c.cm. |
| 9. | Hepatex 5 c.cm. intramuscularly daily. |
| 10. | Hepatex 5 c.cm. intramuscularly every two or three days. Total 130 c.cm. |
| 11. | Campolon 2 c.cm. daily. |
| 12. | Hepatex intramuscularly. Total 190 c.cm. |
| 13. | Fresh liver and extract of hog's stomach. |
| 14. | Two injections of hepatex 5 c.cm. plus liver and liver extract by mouth. |
| 15. | Liver by mouth. |

At X reticulocytes were 2·7 per cent.

given almost every day for six weeks till April 16th (190 c.cm.). The blood picture had now reached its maximum point—red cells 3,026,000, Hb. 49 per cent., C.I. 0·80—and the patient left hospital.

The resistance to parenteral liver therapy was disconcerting, and during her time in hospital a focus of infection was sought in vain in throat, teeth, and sinuses; there was mild irregular pyrexia, occasionally reaching 100° F. during the first two months, associated with rhonchi in the lungs. There was an attack of vomiting of two days' duration in January. In February the tip of the spleen was palpable for the first time and the edge of the liver was also felt.

### FURTHER COURSE

After her discharge the patient again went downhill, although she took fresh liver, liver extract, and hog's stomach, and had an intramuscular injection of hepatex every three weeks. In August she left off the fresh liver and was readmitted on the 17th.

*Third admission.*—The blood count on admission was: red cells 1,680,000, Hb. 35 per cent., C.I. 1·06. She had two injections of 5 c.cm. of hepatex and large amounts of liver and liver extract by mouth, and when she was discharged on August 31st her red cells numbered 2,050,000, Hb. 40 per cent., C.I. 0·9. Liver therapy was again continued at home, but the anæmia gradually increased and the red cells had fallen by Nov. 18th to 1,008,000. At the patient's urgent request all treatment was now suspended, and the red cells continued to diminish gradually.

*Fourth admission.*—On Jan. 2nd, 1933, she was admitted to hospital for the last time complaining of weakness, breathlessness, pain in the back and stomach, and retching after food. She showed an extreme yellowish pallor of the skin and severe dyspnœa at rest; the tongue was red, the lips cracked, the heart was not obviously enlarged, the pulse-rate 120 per min., the blood pressure 90/50 mm. Hg. The liver and spleen were palpable below the costal margin; the central nervous system showed no abnormality, the urine was acid, specific gravity 1010, and contained albumin. The blood count three days after admission was: red cells 872,000, Hb. 16 per cent., C.I. 0·91, and on Jan. 25th, the day before death: red cells 664,000, Hb. 10 per cent., C.I. 0·75.

### POST-MORTEM EXAMINATION (M. L.-S.)

The bone-marrow of the femur was dark red throughout and sections showed a marked megaloblastic reaction. The stomach was atrophic with a few petechial hæmorrhages. The liver was dark brown and greasy, the spleen slightly enlarged, flabby and dark red in colour. The kidneys were pale, the pancreas of a striking reddish-brown tint. The heart was slightly enlarged with but little fatty degeneration ("tigering" was not seen). The reaction for free iron was positive in the following organs, being particularly intense in the pancreas: liver, pancreas, kidneys, spleen, lung, heart muscle, skeletal muscle, suprarenal cortex and bone-marrow.

### THE DIFFERENTIAL DIAGNOSIS

The diagnosis presented great difficulties during life, and it was thought that autopsy might reveal a hidden carcinoma or source of infection. The poor response to liver was against the diagnosis of those conditions in which adequate parenteral liver therapy restores the blood picture and produces a high reticulocytosis, and there were additional contra-indications to the diagnosis of each. Thus, in Addisonian pernicious anæmia there is always achlorhydria. Megalocytic anæmia associated with idiopathic steatorrhœa responds to Marmite, which failed in our case, and there was no clinical evidence of steatorrhœa. Megalocytic anæmia associated with organic lesions of the gastro-intestinal tract was disproved at autopsy. Megalocytic anæmia associated with *Bothriocephalus latus*, tropical sprue, or pregnancy was negatived during life. On the other hand conditions which fail to respond to liver therapy did

not fit into the picture either. Hæmolytic anæmias such as familial acholuric jaundice, sickle-cell anæmia, and the anæmias associated with chemical poisons or chronic malaria show an indirect positive van den Bergh reaction, a high reticulocytosis and, in the case of lead, punctate basophilia; the ætiological factors for these conditions were also absent.

Applications of X ray or radium and the ingestion of radioactive substances may produce megalocytic anæmia with a negative direct and indirect van den Bergh reaction; but in our case none of these had been used. Chronic sepsis or nephritis may be associated with a similar anæmia, but were absent in our patient. Aplastic anæmia and chronic myeloid leukæmia were contra-indicated by repeated blood counts, and by the appearance of the bone-marrow at autopsy.

### COMMENTS

The case was puzzling and disappointing at the time, but in retrospect clearly presents the clinical picture of achrestic anæmia; there was some response to liver therapy, but it was never good and became worse as the case progressed. The maximum red cell count reached was three million, and this result was obtained twice—on the patient's first admission to hospital after three months' oral administration, while on the second occasion two blood transfusions and four months' intensive parenteral liver therapy (400 c.cm.) were necessary. Each time the patient left hospital her condition deteriorated, partly because of her extreme aversion to all forms of liver and stomach substance, but it is noteworthy that even with no treatment at all (November, 1932–January, 1933) the anæmia only progressed slowly and gradually, and showed no sudden fall (see Chart).

The patient's distress at blood transfusions and their feeble effect deterred us from persisting with them. Continuous drip transfusion would probably be the treatment of choice now. Iron, arsenic, and marmite were given in an attempt to augment the liver. Although the gastric juice was perfectly normal our patient experienced nausea, retching, and attacks of vomiting. The anginal attacks were probably induced by the extreme anæmia as were also the cardiac murmurs, the fainting, loss of vision, and breathlessness. These symptoms are common to all types of profound anæmia.

The post-mortem appearances—hyperplasia of the bone-marrow and hæmosiderosis of the liver, spleen, and kidneys—are common to pernicious anæmia and achrestic anæmia, but combined with the poor response to liver therapy and normal free gastric hydrochloric acid support the diagnosis of achrestic anæmia.

### SUMMARY

A woman of 65 with a slowly progressive hyperchromic megalocytic anæmia died after being kept under observation for 21 months. Her gastric acidity was normal, and her central nervous system was unaffected. The response to liver therapy was poor and the clinical course and post-mortem findings were those of an achrestic anæmia.

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# CLINICAL AND LABORATORY NOTES

## TREATMENT OF SUBACUTE BACTERIAL ENDOCARDITIS WITH M. & B. 693

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Sulphonamide-P, Soluseptasine, and M. & B. 693 have been shown by Maegraith and Vollum (1938) to inhibit the growth of *Streptococcus viridans* in the presence of defibrinated blood, M. & B. 693 doing so in a much higher dilution than do the two other drugs. The drugs were ineffective in the absence of leucocytosis. Whitby (1938), in a recent article on this group of chemotherapeutic agents, mentions that he has used M. & B. 693 in three cases of subacute bacterial endocarditis with much temporary benefit and suggests that life may be prolonged by the drug. The following two cases are proved examples of subacute bacterial endocarditis in which M. & B. 693 was tried. The disease is not especially common—hence the reason for putting on record two cases.

### CASE RECORDS

Case 1.—Male, aged 28, a commercial traveller, and known to have had rheumatic aortic regurgitation for many years. In May, 1938, he began to feel run down and ill and had to give up work. He was admitted to the Birkenhead General Hospital on August 6th, 1938.

On admission he was pale and dyspnœic, with a free aortic reflux and a swinging temperature rising to 102° F. He had a bilateral pleural effusion, which at first was thought to cause his symptoms. There were no obvious embolic phenomena, and the spleen was never palpated. The polymorphonuclear count was 25,000 per c.mm., with a secondary anæmia. He was regarded at this time as a case of atypical pneumonia and was given Prontosil, 5 c.cm. intramuscularly daily for two weeks.

On Sept. 21st, while he was still on prontosil, a blood culture was taken, for active endocarditis was now suspected. After ten days' incubation *Str. viridans* was grown. On Oct. 3rd M. & B. 693 was given in large doses, and in three days he had taken 16 g. Not unexpectedly, it had then to be discontinued owing to persistent vomiting with intense nausea. While taking the drug the patient said that he felt stronger but was much bothered by the nausea. The temperature, which had never before been normal for twenty-four hours in hospital, fell to 97° F. within twelve hours of beginning treatment with the drug; but within two days of discontinuing the drug the temperature began to rise again. It was then decided to try the effect of much smaller doses, and 1 g. daily was given for seven days without effect on the temperature; 2 g. daily was next given, and the temperature slowly fell to 98° F. and remained at this level while treatment was continued. The patient soon objected again, and the preparation had to be discontinued. The temperature at once rose, and remained swinging to 101° F. until death three weeks later. A post-mortem examination was not obtained. On Oct. 24th, immediately after withdrawal of M. & B. 693, a second blood culture readily grew *Str. viridans*.

Case 2.—Female, aged 39, first seen in July, 1938, having been diagnosed elsewhere as subacute bacterial endocarditis. Repeated blood culture had always given a pure growth of *Str. viridans*. She had had

two attacks of acute rheumatism at the ages of 8 and 20 and mitral disease had been detected after the first attack. She complained of lassitude and exhaustion following a septic abortion twelve months previously. She was admitted to the Stanley Hospital in October, 1938.

She was an intelligent woman, with obvious mitral stenosis and aortic regurgitation. The spleen was just palpable, and she was running a constant swinging temperature up to 101° F. She had noticed cutaneous petechiæ on many occasions and showed repeated crops of Osler's nodes while under observation.

Blood examination on Nov. 14th showed a leucocytosis of 12,000, with a moderate hypochromic anæmia, and culture grew a very heavy growth of *Str. viridans*. She was in the middle of a course of weekly injections of an autogenous streptococcal vaccine, and this was not interrupted. On Nov. 14th M. & B. 693 was started, 5 g. daily being given for ten days, followed by 1·5 g. daily for a further week. While she was taking the drug the temperature fell to 99° F. and remained at this figure, and an Osler node developed.

A further blood culture was taken on Nov. 24th and still grew *Str. viridans*. An unexpected finding was the isolation of hæmolytic streptococci from the urine. She left hospital a fortnight later, very weak, but otherwise much the same.

COMMENTS

Both the above cases have been described in some detail to show their response to M. & B. 693. Both reacted in much the same manner. When adequate dosage was given the temperature and pulse invariably fell, and this effect could be repeated by a second administration of the drug. The dosage required to lower the temperature is probably less than that usually given, the pyrexia in the first case being controlled by 2 g. of M. & B. 693 in the twenty-four hours. The profound fall in temperature that can be produced by large doses, such as 4–6 g. in the twenty-four hours—in Case 1 the temperature remained at 97° F. for three days—makes one wonder whether some temperature-reducing mechanism may not be at work other than the mere destruction of organisms. The fall in temperature is at least in part presumably due to a sterilising of the blood stream, though there is as yet no certain proof of this. Obviously the ideal investigation which must be undertaken is daily blood cultures while the patient is apyrexial under the influence of the drug. As the dosage of M. & B. 693 was reduced in the above cases, the temperature slowly rose, but it did not reach its former heights until the drug was practically stopped. It would be attractive to assume that there is partial sterilisation of the blood, but not of the primary focus of infection, the endocardium. It is really asking too much even of such a powerful therapeutic agent as M. & B. 693 to expect it to reach the depths of the endocardial vegetations, and it does not seem probable that prolonged administration of the drug, even if tolerated, will be any more likely to effect a permanent cure. It seems that the mechanical problem of the locked up streptococci is still the stumbling-block of treatment. M. & B. 693 is none the less, as far as I am aware, the only drug which has ever been known definitely to reduce the temperature and temporarily to improve the clinical condition in subacute bacterial endocarditis.

I am indebted to Dr. Leslie Cunningham, honorary physician to Birkenhead General Hospital, for permission to see and treat Case 1.

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# PERICARDITIS ASSOCIATED WITH R–T DEVIATION WITHOUT TAMPONADE

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THE electrocardiographic change characterised by R–T deviation is now well established. Smith (1918) first drew attention to it in experimental ligation of the coronary artery. Pardee (1925) in America, and Parkinson and Bedford (1928) in this country, drew attention to its clinical significance in cardiac infarction. Shortly afterwards attention was drawn to the same change associated with a rheumatic pericardial effusion by Porte and Pardee (1929).

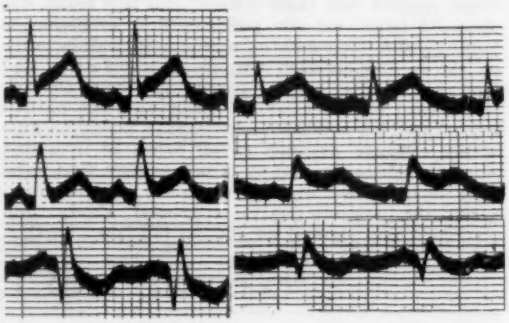

FIG. 1—Electrocardiogram 13 days after operation, showing classical R–T deviation, including lead II.

FIG. 2—Electrocardiogram 17 days after operation, showing same curve with diminished voltage.

Experimental work showed that very similar curves were produced by pericardial tamponade, the degree of deviation varying directly with the degree of intrapericardial pressure (Katz, Feil, and Scott 1929, Bay, Gordon, and Adams 1933, Katz and Wallace 1931). Following this work Harvey and Scott (1932) published findings in a case of pericarditis with paracentesis and pericardiotomy, in which the curves behaved in the same way as in the experimental work—i.e., paracentesis diminished the R–T deviation.

All this work tends to prove that in pericardial effusion the deviation depends on the increased intrapericardial pressure. Recently attention has been drawn to the significance of the R–T deviation in lead II in pericardial effusions and hæmopericardium, suggesting again that a tamponade effect is responsible (Wood 1937). The following case seems to establish that the same tracings can be obtained without tamponade under clinical conditions.

CASE RECORD

A woman of 30 had a left pneumonectomy for infected unilateral congenital cystic disease of the lung. During the operation, while the adherent lung was being separated from the pericardium just in front of the root, the pericardium was opened for a distance of 1½ in. This was oversewn with catgut.

The post-operative condition was uneventful until the ninth day, when the patient suddenly collapsed

with tachycardia, shock, and cyanosis. On the thirteenth day a loud splashing sound was heard, synchronous with systole, indicating that a hydro-pneumopericardium was present. A tracing at this time (Fig. 1) showed the classical R-T deviation, including lead II, which has been described by other observers (Wood 1937). Tracings four days later (Fig. 2) showed the same curve with diminished voltage.

On the fourteenth day pericardiotomy was performed. When the pericardium was opened, there was an offensive odour, the normal sheen of the visceral pericardium was lost, owing to a deposit of fibrin, and the myocardium was very soft. Direct swabs showed many organisms, and cultures grew hæmolytic streptococci. Sections of the pericardium taken showed "inflammation and necrosis of connective tissue with an inflammatory exudate in which were large numbers of Gram-positive cocci (possibly pneumococci)."

Four days later the patient died, and a post-mortem showed the typical bread-and-butter appearance of a suppurative pericarditis. The opening originally oversewn at the operation was open and had been the source of entry of pyogenic organisms from the infected pleural cavity into the pericardium.

There was very little fluid in the pericardium either at the time of the pericardiotomy or at the post-mortem, which suggested that there was no increased intrapericardial pressure, and that there was good free drainage between the pericardium and the thorax.

We wish to thank Sir Frederick Menzies, medical officer of health for the County of London, for permission to publish this case.

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# MEDICAL SOCIETIES

## HUNTERIAN SOCIETY

AT a meeting of this society in London on Dec. 19th a discussion on

### Sneezing

was opened by Dr. GEORGE RIDDOCH. Sneezing, he said, was a form of reflex activity, the main purpose of which was to clear the nose of irritating substances. If not repeated too often the act was distinctly pleasurable and gave rise to a transient sense of well-being. Although the voluntary muscles were employed, the reflex nature of the act was shown by the fact that it was preserved in the decerebrate animal. The reflex was based on two mechanisms—the nasal and the respiratory. When one took a pinch of snuff the stimulation of the receptors of the nose invoked impulses which passed by the afferent nerves to the medulla.

The immediate result of the sneeze reflex was either a single energetic inspiration or a jerky inspiration through the open mouth or dilated nostrils. The air was then actively expired through the nose and usually to some extent through the mouth. The noise was produced during the inspiration and by the forcing of air through the nose and throat on active expiration. The nose-clearing purpose of sneezing was less obvious when it was due to causes which did not affect the mucous membrane. Thus a draught of cold air applied to the body, especially the head, neck, or ankles, might cause sneezing. Cool air was probably the explanation of the morning sneeze when getting out of bed. A well-recognised group of people were especially liable to paroxysmal sneezing. This was a constitutional disorder and strongly inherited, and such people seemed less liable to serious illness. The mechanism by which the sneeze reflex was excited by extranasal forms of stimulation was not fully known.

Mr. C. HAMBLEN-THOMAS said that pressure on the columna, acting as a more powerful stimulus, might avert a sneeze, and cocainisation of the spheno-palatine ganglion would stop a sneezing attack. In a person who was not a chronic sufferer the mucous membrane of the middle turbinate was red and engorged, and bled easily when touched. A similar state of the septum was frequently found, especially in the region of the tubercles. In the more chronic type the mucous membrane looked comparatively healthy, but the anterior ends of the middle turbinates were slightly œdematous. Often the middle turbinate was enlarged and cellular, and was pressing against the septum. A later stage was accompanied by polypus formation without any general hypertrophy of the nasal mucosa. These types were usually infective in origin, with underlying disease, and removal of polypi was likely to be beneficial. In the hay-fever type the septal tubercles were particularly enlarged and covered with thickened mucous membrane, but except for removal of any mobile and obstructive polypi, extensive attack on them was useless and even harmful. Any concurrent sinus suppuration should be treated by improving drainage with the minimum amount of surgical trauma.

General treatment was as important as local, and the less surgical interference there was the better. Exercise and stimulating massage, especially of the neck muscles and abdomen, were helpful in the vaso-motor type. Intramuscular injections of calcium and diathermy to the sinuses were also useful. Drugs such as local anæsthetics and ephedrine gave temporary relief but were harmful if continued. Cauterisation of the septal tubercles and ionisation, by diminishing the sensitivity of the area, acted well, and in hay-fever the effect often lasted the year, but the result was not permanent.

Dr. GEORGE BRAY described five groups of causes of sneezing. Inhalants included pollens, dusts, feathers and down, animal and insect emanations, orris root, and moulds and fungi and their spores. He mentioned the case of a girl who was affected by eating peppermint creams which were found to contain orris root, and said that tomato growers got terrific attacks of sneezing through the spores thrown off by fungi growing on the plants. Ingestant causes included certain foods, alcohol, and aspirin. Sneezing, running of the eyes, and asthma could result from reactions to serum, an overdose of desensitising solution or vaccine, and from insect bites and stings. Patients might be sensitive to certain bacteria but such sensitivity was not specific. In infections the patient had attacks because he

was put to bed more in contact with down and dust, and his resistance was lowered. Cold air, smells, and petrol and tobacco fumes could act as contact causes.

Sir JOHN WEIR referred to emanations from horses, and mentioned the case of a woman who had no attack for ten years, but the condition recurred when she cut up an old riding habit. —Dr. ALISTAIR MCGREGOR said that a man with a persistent hiccough, which nothing could stop, was cured when he sneezed after being given a pinch of snuff and "a dig in the ribs."

## MEDICAL SOCIETY OF INDIVIDUAL PSYCHOLOGY

AT a meeting of this society held on Dec. 8th, with Dr. H. C. SQUIRES in the chair, a paper on

### The Infectious Quality of Neurosis

was read by Dr. ETHEL DUKES. In assessing the factors contributing to neurosis in childhood, she said, heredity and constitution must first be taken into account. Even where the material and personal environment appeared to be all that could humanly be expected; where the marital relationships between the parents and their mutual management of the family were good; and where the other children were normal in every way, it was sometimes found that one child was neurotic. Anyone who had had much experience of newly born infants was acutely aware of their differing individuality from the first moment of life and particularly their idiosyncrasies of behaviour on first being put to the breast. Character could almost be foretold by the knowledgeable, and mothers of large families would recall how differently each child reacted to the problems of feeding and nurture from its earliest days and onwards. The reception of all phenomena would be coloured or distorted by the interpretation the child made to himself of his early experiences. Conflicts then might arise and, however wise Authority might be, and however stable the environment, unless the child could successfully correlate his experiences and resolve his own emotional conflicts, he was bound to suffer.

There were, on the other hand, children who appeared to have inherited such psychological tendencies to stability that nothing—not even the most unstable environment—seemed to upset their serenity. These children were not necessarily stupid or dull. Many, on the contrary, were gifted individuals, often lively and possessed of a good sense of humour, besides the capacity for getting on well with others.

Nevertheless the most important factor of the early normal development of childhood was a sense of security in the fundamental relationships of life. So often in cases of neurosis in children was it found that one or more of the parents or close attendants suffered from neurotic complaints that the illness of the child seemed almost like an infection. Sometimes the symptoms were alike, but more often they differed, for a child's reaction was different from that of an adult. This reaction was often unconsciously dramatised in play-therapy analysis. Hence the importance of family and environmental histories and the frequent necessity of treating some other member of the family as well as the child.

In this earliest period of life the child, though a highly potentised individual, lived largely in the unconscious. Life for him was chiefly that of affectivity, and whatever happened in the unconscious as well as in the conscious mind of his parent was bound to have great influence on his emotional development, because of his close psychic connexion with the parent. Young children understood life chiefly through their sensations and their intuitions and they knew intuitively when the conduct of the nearest adults was based on fears, inhibitions, and repressions. They reacted not only to the adults' words and actions but to their unconscious motivations. Children might be brought up in very restricted and poor conditions, yet if from their early days they intuited the unconscious "goodness" and emotional stability of their parents, all might be well with them also.

# REVIEWS AND NOTICES OF BOOKS

## Cardiovascular Disease in General Practice

By TERENCE EAST, D.M. Oxon., F.R.C.P., Physician in charge of Cardiological Department, King's College Hospital. London: H. K. Lewis and Co. 1938. Pp. 206. 10*s*. 6*d*.

IT is not by chance that we owe our most valuable cardiac drug to Withering and our present conceptions of heart disease to Mackenzie—both at one time general practitioners. For the care and treatment of cardiac disease is for the most part the concern of the practitioner, and in writing this book the author has tried to keep in mind and meet the difficulties commonly met with in general practice. Much of the recent work on the cardiovascular system has little of direct interest to the practitioner, for it is of more use to him to be able to assess the importance of a mitral systolic murmur than the importance of a notched Q R S in the fourth lead of the electrocardiogram. This point of view has been fairly met by Dr. East, but he has done more than that in basing his remarks on the newer and more physiological conceptions of heart disease. The scheme he suggests for the clinical examination of cardiac patients should be of real use if the doctor is not content with labelling a patient's disorder but wants to know how and why his heart is failing. The practical side of the book is also seen in the detailed diet charts and schemes of graduated exercises for the convalescent cardiac patient. The sections on examination for life assurance and that on the post-mortem findings in cases of sudden death deal with subjects not easy to find discussed elsewhere. In two instances Dr. East departs from current teaching, when he differentiates between failure of the right and left ventricles, and advises the use of digitalis for failure with normal rhythm. These ideas were discarded years ago in the light of new knowledge and now with further knowledge are being reaccepted.

With all its good points the book bears some evidence of hasty revision. The practitioner is unlikely to be concerned with the latent heart-block which may shift a presystolic murmur to mid-diastole (p. 13), and even his practised finger will have difficulty in recognising the combination of a collapsing and anacrotic pulse (p. 15), or the dicrotic pulse which indicates a poor tone of the arterioles (p. 16). The space devoted to lesions of the tricuspid valve might have been put to better use for some-

thing of more practical value. The author regards the measurement of the circulation time as a clinical method of measuring the degree of heart failure; in other hands the ether method has given more knowledge about the sensitiveness of the lining of the veins and the ease of producing thrombosis in them. All in all, however, the author has adequately met the need for a modern, practical, and inexpensive book on heart disease.

## Progressive Relaxation

Second edition. By EDMUND JACOBSON, M.D., Laboratory for Clinical Physiology, Chicago. London: Cambridge University Press. 1938. Pp. 494. 22*s*. 6*d*.

AN increasing number of physicians and psychologists are becoming aware of the importance of educating patients who suffer from functional nervous disorders in methods of muscular relaxation. This may be merely an adjunct to psychological treatment, but it is often an essential part of the treatment of symptoms which originate in exaggerated tension either of striped or of unstriped muscles. A new edition of Dr. Jacobson's book will therefore be welcome. As readers of the earlier edition know it is an attempt to place the technique of progressive muscular relaxation upon a sound physiological basis. Dr. Jacobson suggests that it is applicable not only to sufferers from the psychoneuroses but also to the victims of irritable colon, arterial hypertension, and similar conditions. While it is important that a method should not be discredited by claiming too much for it, the author presents convincing evidence that its methods can benefit both œsophageal and colonic spasm. The Yogis have demonstrated that visceral function can be brought under conscious control to a much greater extent than the materially minded believe, a statement which is the obverse of the psycho-physiological platitude that a disordered mind leads to disordered visceral function. It is somewhat surprising that this potentially fertile field has been left so long to the attention of the mystic and the huckster. Dr. Jacobson's book is not only a practical manual but a review of the theoretical aspects of the subject with a considerable number of references.

## Elementary Anatomy and Physiology

By JAMES WHILLIS, M.D., M.S., F.R.C.S., University Reader in Anatomy, Guy's Hospital Medical School; late Lecturer in Anatomy in the University of Durham. London: J. and A. Churchill. 1938. Pp. 342. 12*s*. 6*d*.

THIS book was written with the object of introducing the medical student at the outset of his career to the real significance of the anatomical facts which he must learn, and to the idea of the interdependence of structure and function. Several American authors have tried to help him to begin his work with the right perspective. It is a pleasure to greet a good English text-book; Dr. Whillis covers the ground no more effectively but fits in better with our traditional methods of teaching.

It should be noted that the physiology is introduced as an adjunct to the anatomy, and the book should be used accordingly. In an elementary text-book of physiology one would distribute the emphasis differently, and this book should not be regarded as an introduction to physiology except in so far as it makes the student familiar with certain general principles and functions.

The anatomical sections of the book are lucidly written and the diagrams are clear and pick out the main essentials for the student. In the physiological part compression involves something more than mere omission, but there is not much distortion, and when the student re-learns the subject in detail he will have little to forget.

## Gray's Anatomy

Twenty-seventh edition. Edited by T. B. JOHNSTON, M.D., Professor of Anatomy in the University of London at Guy's Hospital Medical School; assisted by J. WHILLIS, M.D., M.S., University Reader in Anatomy at the School. London: Longmans, Green and Co. 1938. Pp. 1536. 45*s*.

THE new edition of this great book is worthy of its predecessors and the repute of the work. The changes introduced in the twenty-sixth edition, which we welcomed at the time, have evidently proved valuable, and are retained here. X ray photographs which appear now for the first time will be a welcome innovation to some readers but by no means all, for the genus student is conservative. The price of the volume has risen to 45*s*., but good value is given for the outlay. There can be no doubt that, if its present standard is maintained, "Gray" will stand at the head of English text-books of anatomy for many years to come.

## Modern Anæsthetic Practice

Edited by Sir HUMPHRY ROLLESTON, Bart., G.C.V.O., K.C.B., M.D., F.R.C.P., and ALAN A. MONCRIEFF, M.D., F.R.C.P. London: Eyre and Spottiswoode for the *Practitioner*. 1938. Pp. 231. 10*s*. 6*d*.

The third of the *Practitioner* handbooks fully maintains the standard set by its predecessors. Except that it does not deal with the elements of either the practice or the physiology of anæsthesia it would make a first-rate text-book, for every chapter is written by an acknowledged authority. Prof. R. R. Macintosh lays down clearly what can and cannot be done with nitrous oxide anæsthesia alone, and provides a concise description of secondary saturation and an exposition of the cause and significance of cyanosis. "Those who like to operate on a patient with completely relaxed abdomen," he writes, "will never do good work under the conditions afforded by nitrous oxide, but there are surgeons who are so impressed by the good condition of the patient after nitrous oxide anæsthesia that they are willing to put up with difficulties...." In the chapter on the volatile anæsthetics, which includes an admirable account of the use of ether, Dr. H. W. Featherstone alludes to the Vernon Harcourt inhaler as though it were still in use; we thought it was now only to be seen in collections. Dr. J. K. Hasler expresses the modern view that all patients who are operated on under spinal anæsthesia should have adequate premedication. He recommends Omnopon and scopolamine an hour and a half and Nembutal an hour before operation. The advantage or otherwise of the Etherington Wilson technique is not discussed, but as Dr. Hasler describes the method in giving an alternative technique for abdominal operations we may assume that he does not disapprove of it. Dr. John Elam discusses anæsthesia and analgesia in midwifery and sums up his recommendations as "morphine early in labour, gas and air analgesia in the second stage, and gas and oxygen analgesia for the small percentage of patients who do not respond satisfactorily to gas and air." Dr.

Frankis Evans deals with anæsthetics for the child and Dr. I. Magill with post-operative care. Local methods are discussed, it is suggestive to observe, by a surgeon, Mr. W. H. C. Romanis. Chapters on dental anæsthetics and on the risks of explosion complete an interesting and informative book.

## British Mosquitoes

By J. F. MARSHALL, C.B.E., M.A., F.R.E.S., Director, British Mosquito Control Institute, Hayling Island, Hants. London: Printed by order of the Trustees of the British Museum. 1938. Pp. 341.. 20*s*.

Dr. W. D. Lang's "Handbook of British Mosquitoes," which was published in 1920, has been out of print for some time. Mr. Marshall, whose work on the mosquitoes of this country both in Hayling Island and elsewhere is justly famous, has produced a revision of Lang's Handbook which incorporates so much new material that it is in effect a new book, which covers the subject completely. It begins with an elementary introduction which will enable the beginner to recognise a mosquito as such and to appreciate its mode of life at all stages of development; it then proceeds to a systematic account of the 29 species of mosquito that occur in this country, elaborate and exhaustive enough to make possible their identification as adults, larvæ, and in some cases as eggs and pupæ. From the standpoint of public health, mosquitoes may be important simply from the nuisance caused by their irritating bites, or as carriers of malaria. There are four species of anopheline mosquitoes in this country capable of transmitting malaria; the most important of these is *Anopheles maculipennis*. During the past fifteen years it has been recognised that this species is made up of a number of races or varieties differing in their habits and so in their capacity to convey the disease in nature. The former distribution of malaria in this country, and the disappearance of indigenous malaria during the last sixty years, can be explained by the distribution of the varieties in question, and by the severing of contact between man and mosquito as the result of changed conditions of living. In dealing with troublesome culicine mosquitoes, which are of more practical importance at the present day, the first essential is identification. This will give an indication of their probable source and so make possible their eradication by eliminating their breeding places. All these matters, so far as they concern this country, are clearly set forth in this book, which is excellently illustrated both with technical drawings and coloured plates and photographs.

## Pharmaceutical Therapeutics

*With Pharmacology, Posology and Toxicology.* Second edition. By ELDIN V. LYNN, Ph.D., Professor of Chemistry, Massachusetts College of Pharmacy, Boston. London: McGraw-Hill Publishing Co. 1938. Pp. 430. 24*s*.

THIS is a text-book of pharmacology and toxicology intended primarily for students of pharmacy. The author believes that the pharmacist should have a fairly complete knowledge of the uses to which drugs are put. The only way of limiting counter prescribing is either to teach the pharmacist nothing at all about the nature of disease or else to give him so full a knowledge that he will realise his limitations. The author prefers the latter method and his book contains much information about therapeutics. The pharmacist may on occasion have to provide first aid in cases of poisoning and toxicology, and this receives detailed attention. The book is accurate and up to date, and mentions a large number of drugs which are not in common use. Its value to pharmaceutical students in this country is limited by the fact that the doses given are those of the U.S. Pharmacopœia. The style of writing is mostly undistinguished and at times dreadful. But the volume is unique in its scope and makes an excellent book of reference for the pharmacist.

## Lehrbuch der Pharmakologie, Toxikologie und Arzneiverordnung

By Dr. med. EMIL STARKENSTEIN, Professor of Pharmacology and Pharmacognosy in the German University of Prague. Leipzig and Vienna: Franz Deuticke. 1938. Pp. 758. RM.20.

IN its general arrangement this book follows the usual German practice. There is an introductory section containing an interesting historical review of pharmacology, an especially good article on synergism, and ten fundamental therapeutic rules which are very sound. In the special part the chapters are arranged according to the system on which they mainly act. In consequence many drugs receive mention in more than one chapter and indeed the description of the central actions of atropine are described separately from its peripheral effects. This method, which has the advantage of emphasising the practical uses to which drugs may be put, inevitably entails a certain amount of repetition. A better index would have mitigated the drawback. The general descriptions of the actions and uses of the drugs, however, are full, accurate, and up to date, differing surprisingly little from the accounts in the best modern American and English text-books. In particular toxicology is very well done. The scope is wide and the pharmacology of the vitamins and ductless glands is briefly but well described. A conspicuous feature is the large number of chemical formulæ, rendering it a useful book of reference in which to look up the structure of substances such as Uleron, Pantocain, and Germanin. An excellent diagram illustrates the difference between the old and the modern classifications of the autonomic nervous system. This is a book of solid merit.

## An Introduction to Clinical Perimetry

Third edition. By H. M. TRAQUAIR, M.D., F.R.C.S.E., Ophthalmic Surgeon, Royal Infirmary, Edinburgh; Ophthalmic Surgeon, Chalmers Hospital, Edinburgh. London: Henry Kimpton. 1938. Pp. 320. 30*s*.

THE text of this book has been carefully revised, rearranged, and amplified. Nearly 50 new illustrations and over 60 new references have been added, and the results of recent anatomical researches on the visual pathways are outlined and discussed.

Dr. Traquair keeps the practical aspects of perimetry in the foreground, but does not neglect the scientific and academic principles on which it is based. He advocates the use of simple methods for the elucidation of clinical facts and avoids descriptions of elaborate apparatus. He emphasises the importance of quantitative perimetry and the significance of the changes revealed by this method of examination. His book is obviously the outcome of thorough and painstaking work in a branch of ophthalmology which may provide an essential clue to diagnosis in neurological medicine and surgery. We have nothing but praise for its style and production.

# THE LANCET

*LONDON: SATURDAY, DECEMBER 31, 1938*


## EXPEDIENT BUT UNLAWFUL

AT the Medico-Legal Society's dinner, reported in our last issue, Lord DAWSON made a eloquent appeal for greater freedom for the medical profession from the vague but deterrent shackles of the criminal law. Law, he said, has always had relations to the community; medicine has only recently begun to have similar relations. He instanced the man who, himself perfectly well, is a carrier of typhoid fever. The bacteria reside in his gall-bladder, and if he is persuaded to have his gall-bladder removed, he is submitting to an operation for the good of the community; yet the operation of removal may be unlawful wounding. Such examples might be multiplied. The uncertain implications of the law confuse the problems of sterilising the unfit. The line between legal and illegal abortion has been drawn with confident firmness by courts and text-book writers in the past. But it seemed in the Bourne case less definite, when the presiding judge gave a not unreasonable interpretation of what is permissible. Speaking after Lord DAWSON on the same evening, Mr. Justice MACNAGHTEN insisted that the common law is unchangeable and unchanged except in so far as Parliament may see fit to alter it. If this means that the principles of law are never developed by judicial decisions, the statement is incompatible with the progressive series of judgments on the legal consequences of nervous shock noted in our medico-legal columns this week and last.

In the interests of the patient and the public the conditions of medical or surgical treatment must often involve some surrender of personal rights. The report of a recent Royal Commission has suggested that, in Scotland at any rate, the progress of mental treatment is needlessly retarded by forensic ideas about the liberty of the subject. In the history of potential assault the old controversies over compulsory vaccination are familiar. To come to more modern aspects, Parliament is now being invited to authorise the taking of blood tests in paternity disputes. Examination of the blood of motorists charged with driving while under the influence of drink provides another analogy. Lately the Croydon litigation raised the issue whether men employed in well-sinking or similar work should not be tested in respect of their tendency to spread infection. Has not the time come for a general review of the legal restrictions upon the practice of preventive medicine and surgery?

The root of the trouble for surgeons, we suspect, is the paulo-post-diluvian law of mayhem. In feudal times when military tenure was a visible symptom of the duty of bearing arms in the following of overlord or king, a maim was naturally a national crime. It meant any wound or corporeal hurt whereby a man lost the use of a member proper for his defence in fight—"as if a man's skull be broke or any bone broken in any other part of the body, a foot, hand, finger or joint of a foot or any member be cut off, if by any wound the sinews be made to shrink, or where anyone is castrated, or if an eye be put out or any foretooth broken." The cutting off of ear or nose, or the knocking out of a back tooth, was not a maim but a mere disfigurement—a distinction which survives in Section 18 of the Offences against the Persons Act of 1861. Everyone, said Sir JAMES FITZJAMES STEPHEN, has a right to consent to the infliction upon himself of bodily harm not amounting to a maim. Conversely consent can never, in legal theory, make lawful an operation which amounts to maiming. According to Coke's Institutes a man who maims himself "that he may have the more colour to beg" can be indicted and fined. Mutilation to avoid military service is plainly an offence which the State cannot overlook. The codes which govern the discipline of our armed forces make specific provision against it. But the oddities of the law of maiming, lurking in ancient dicta to which modern judges may still have to pay respect, have nowadays nothing but a nuisance value. The nice distinction between injury to front and back teeth, possibly still of importance when it was part of the common soldier's drill to bite cartridges, is now merely farcical. It seems absurd, remarked STEPHEN, to say that, if A gets a dentist to pull out a front tooth because, though not diseased, it is unsightly, A and the dentist both commit a misdemeanour. The law may be left to wrangle over the difference between maiming and disfigurement. Some definite restrictions on the indiscriminate termination of pregnancies must doubtless still stand though even here the legal uncertainty is notorious. When full weight is given to these considerations it should now be made clear that whatever is done with the patient's consent and in accordance with the proper standards of medical and surgical practice can no longer be a crime.

## IS LOBAR PNEUMONIA INFECTIOUS?

MOST practitioners and hospital administrators would probably deny that lobar pneumonia is ever infectious, though some might admit the possibility of odd instances of contact-infection. Such instances may be and have been converted to practical certainties by proving the type-identity of the infecting pneumococcus in primary and secondary cases. Yet most attacks of lobar pneumonia seem to appear out of the blue with no apparent connexion with another case. The same, of course, is true of other undoubtedly infectious diseases—for example, poliomyelitis and cerebro-spinal fever—in which the contact carrier is blamed for the dissemination of infection. But in pneumonia the epidemiologist is again baulked, for it is rare to find carriers of the common infecting types of pneumococcus (I and II) among samples of the general population. That both convalescent

and contact carriers of these "epidemic" types do exist has been clearly demonstrated by CRUICKSHANK, who in his Milroy lectures[1] has suggested that the epidemiology of lobar pneumonia may prove to be similar to that of cerebro-spinal fever.

The difficulty with pneumonia is that because it is an endemic infection with many types of infecting pneumococci its mode of spread in an urban community is almost impossible to trace. Several recent studies of outbreaks in institutions and isolated communities, however, have shed much light on its epidemiology. SMILLIE[2] has recorded a localised epidemic of Type II pneumococcus pneumonia in a veterans' hospital which began in March, died out in the summer months, and flared up again in the autumn. In an attempt to trace the possible sources of infection, nasopharyngeal swabs were taken from all the inmates and attendants in the ward where seven cases of pneumonia had occurred within two months, and, as a control, similar swabs were taken in an uninfected and quite separate ward. Random samples were taken from other wards. Among 83 persons examined in the infected ward 17 carriers of Type II pneumococcus were discovered, and 4 carriers were found in a contiguous ward which had no pneumonia cases, while the cultures from the control ward were all negative. Thus in a more or less closed community, where clinical cases of pneumonia due to the same type of pneumococcus were cropping up, a carrier-incidence of 20 per cent. presented features similar to those in an outbreak of cerebro-spinal fever. The carrier-state was usually only temporary, but six men remained carriers for more than six months and were obviously responsible for the fresh outbreak in the autumn. SMILLIE also records isolated instances of a carrier directly infecting a patient or attendant. Another epidemic of pneumococcus infection, recently described by GILMAN and ANDERSON,[3] affected a village community in the western part of Massachusetts. The infecting organism was the Type I pneumococcus, and the clinical cases, which were mostly school-children, included a high proportion of middle-ear infections either associated with or independent of lobar pneumonia. As a result of careful field investigations and the wholesale swabbing of throats, the authors concluded that the infection was being spread by adult carriers, all of whom were employed in a mill manufacturing cotton gauze.

These investigations seem to establish the rôle of the "healthy" carrier in the spread of lobar pneumonia and help to explain the apparently isolated cases which arise in a household or institution. The failure of various workers to detect carriers of the epidemic pneumococcus types among the general community may be due to the selection of samples from occupations in which pneumonia is uncommon, for many years ago SYDENSTRICKER and SUTTON[4] found a carrier-rate of 12 per cent. of Types I and II pneumococci among the Bethlem steel workers, in whom pneumonia is more than ordinarily prevalent. These studies also illustrate that much may be learnt about the epidemiology of a disease from a thorough investigation of outbreaks in villages or institutions, where the variables are almost as few as those demanded by the experimental epidemiologist.

## CONTRASTS IN MORTALITY

IT is well known that relatively wide differences exist in the incidence of mortality in this country both upon persons of different social classes and of different areas of residence. Attention is repeatedly drawn to such facts in the annual reports and decennial supplements of the Registrar-General. For instance, to quote but one or two of the many examples scattered through his tables, the recently published supplement on occupational mortality[5] shows that in 1930–32 the mortality-rate of males of social class I (professional workers, &c.) was 2·88 per 1000 at ages 25–35, and of married women of the same class 2·22 per 1000. In social class V (unskilled workers) the rates were 3·74 and 3·71, or 30 and 67 per cent. higher. At ages 35–45 the corresponding rates were 4·39 and 3·32 against 6·67 and 5·07, an excess of approximately 50 per cent. for both men and married women of the lower social class. As an example of the experience of a particular occupational group may be cited the mortality of the infants of coal hewers and getters. In 1930–32 their infant mortality-rate was 82 per 1000 and their death-rate in the second year of life 22·6 per 1000. The corresponding rates in social class III, with which they may be appropriately compared, were only 58 and 12·6. Infant mortality shows similarly wide variations between different regions of the country. In 1936, for instance, there were 59 deaths per 1000 live births in England and Wales as a whole; in the South-East (excluding Greater London) the number was only 45, in Durham and Northumberland it was 74, and in Wales it was 62. The rate in the county boroughs was nearly 25 per cent. above the rate in the rural districts. The predominant causes of deaths determining these local variations are bronchitis and pneumonia, premature birth, and diarrhœa.

That equally wide differences exist within a more limited area is emphasised in the last report of the chief medical officer of the Ministry of Health in a section contributed by BRADFORD HILL and B. M. RAO of the London School of Hygiene and Tropical Medicine.[6] Taking the county boroughs of four northern counties—Durham, Northumberland, Yorkshire, and Lancashire—they related the populations aged 1–2 and 2–5 recorded at the census of 1931 to the annual average of the deaths occurring in the five years 1929–33. At ages 1–2 mortality ranged in the

[1] Cruickshank, R., *Lancet*, 1933, **I**, 621.
[2] Smillie, W. G., *Amer. J. Hyg.* 1936, **24**, 522.
[3] Gilman, B. B., and Anderson, G. W., *Ibid*, November, 1938, p. 345.
[4] Sydenstricker, V. P. W., and Sutton, A. C., *Bull. Johns Hopk. Hosp.* 1917, **28**, 312.
[5] *Lancet*, Oct. 15th, 1938, p. 897.
[6] Annual Report of the C.M.O. of the Ministry of Health for the Year 1937, pp. 23–29.

towns of Durham and Northumberland from 37 per 1000 in the county borough of Sunderland to half that figure, 18·5 per 1000, in Darlington. In Yorkshire and Lancashire even more striking differences are noted; the rates of mortality in this second year of life range from 38 per 1000 in Middlesbrough to 11–12 in Doncaster and Huddersfield, and from 35–36 in Wigan and Liverpool to 11–12 in Blackpool and Barrow and only 8 in Southport. In other words the towns with the worst records had rates at least three times as high as the rates in the towns with the best records. Differences of nearly the same order occur at ages 2–5. The boroughs with the worst experience have rates of 9–10 per 1000, while those with the best experience have rates of 4–5, or only half as high. These differences are closely associated with the proportion of the population living more than 2 per room, and the common infectious diseases, respiratory causes, and digestive diseases all react unfavourably as this proportion increases. It is impossible to believe, the authors conclude, that such great differences in the mortality of early childhood are not, at the very least in part, preventable through improvements in the general standards of life, and they quote with approval the similar conclusion of the Registrar-General that "it ought to be possible to reduce the death-rate from these causes at 1–5 years very substantially by continued attention to the more remediable factors such as housing and nutrition in the areas where the rate is at present excessive." [7]

The same conclusions are drawn very much more forcibly, though sometimes on less unassailable statistical evidence, in a book recently published by Mr. RICHARD TITMUSS to which Lord HORDER contributes a foreword.[8] TITMUSS rightly emphasises that the great improvements in the physical condition of the nation and the great reductions in the death-rate that have taken place in the last half-century must not blind us to the fact that "judged on the higher standard achieved in some districts and areas, we have travelled but a small part of the way towards perfection." As regards mortality the most favourable figures to-day are those of the South-Eastern section of the country and these he contrasts with those of Wales and the northern counties of England. For instance, there were in 1936 2160 more stillbirths in the northern counties and 801 more in Wales than would have occurred if the south-eastern rate had prevailed in those areas. Infant mortality in the same year was 50 per cent. in excess of the "standard" in the north, 38 per cent. in excess in Wales; the corresponding excesses were 58 and 36 per cent. at ages 0–4 years, 48 and 14 at 5–14, 31 and 55 at 15–24, 23 and 49 at 25–34, and roughly 30–40 per cent. in both areas in all the age-groups from 35 to 75. To these substantially higher death-rates in the northern and Welsh counties bronchitis, pneumonia, and other respiratory disease is a heavy contributor in the first few years of life, tuberculosis in adolescence and early adult life, and deaths attributed to heart disease from age 35 upwards. Tuberculosis is a disease that has been shown repeatedly to be closely associated with indices of poverty and we may quote one more of TITMUSS's many comparisons. In 1931–35 he finds that the death-rate from phthisis of females aged 15–35 was about 70 per cent. of the national rate in the urban districts of Surrey and Hertfordshire, about 130 per cent. in the urban districts of Durham and Northumberland, and about 170 per cent. in the urban districts of Glamorgan and Monmouthshire.

It cannot, of course, be maintained that there is one simple factor underlying these high death-rates. As F. J. H. COUTTS points out,[9] we have to consider the possible effects of such factors as climate, race (the influence of which, however, he doubts), occupation, overcrowding, nutrition, migration, and, in rural Wales, the reluctance of the patient to leave home for hospital. TITMUSS, on the other hand, maintains that all the differences that his figures reveal between the mortality indices of the south-east and those of the northern and Welsh counties are the product of intense poverty on a considerable and widespread scale. While it is legitimate to question so sweeping a conclusion—both in general and with regard to particular causes of death—as well as some of the evidence he cites in favour of an increased death-rate in the years of economic depression,[10] there can be no doubt at all that much of this early mortality *is* preventable in the wide sense of the word, and would not occur if a generally higher standard of living and care could be made to prevail. Faced with an ageing and, shortly, declining population, any such waste of life in childhood, adolescence, and the early adult years is clearly a problem not only of common humanity but of national concern.

[7] Registrar-General's Statistical Review. Text. 1935.

[8] Poverty and Population: A Factual Study of Contemporary Social Waste. London: Macmillan and Co. 1938. Pp. 320. 10*s*. 6*d*.

[9] *Brit. med. J.* Oct. 22nd, 1938, suppl. p. 257.

[10] See *Lancet*, Nov. 19th, 1938, p. 1182.

## THE LANCET 100 YEARS AGO

*Dec. 29th, 1838, p. 523.*

*From a lecture by* Mr. G. T. HAYDEN *of Dublin.*

Believe me, the road to the Temple of Medicine is a series of rough and rugged ascents, truly an up-hill course,—a long and weary way, beset with mists, meteors, and mischances.

The result of statistical tables of the length of life of the members of each profession, indicates that medical pursuits and practice tend to shorten the natural period of existence more than the duties of any other professional calling. How can it be otherwise?

You have viewed the student in the dissecting-room, surrounded by objects loathsome in the extreme, you have followed him to the hospital, and have witnessed the heart-rending scenes of suffering to which human nature is heir, both there, and in the everyday walk of life. Next, you see him in the study, wasting his health over the midnight lamp; or undertaking his labours long before the sun has risen to dispel the darkness and gloom of the night; lastly, you see him, pale, wan, and anxious, presenting himself as a candidate for a degree or diploma.

# ANNOTATIONS

## X RAY THERAPY FOR TOXIC GOITRE

THE treatment of toxic goitre with X rays has, like other non-operative methods, been largely superseded by surgery, which has been much safer since the value of pre-operative iodine was discovered in 1923. For the older patient, who usually has a nodular goitre and is liable to cardiac complications, subtotal thyroidectomy gives excellent results and carries a very low risk. X ray therapy for this type is now generally considered ineffective, but Newman and Garland [1] report success in 28 cases treated with X rays and iodine. The average age was fifty, some form of organic heart disease was present in all but 4, and 11 had auricular fibrillation (paroxysmal fibrillation being included under this heading). Irradiation was usually given at intervals of 3–7 days, with an average of twelve applications, and "cure"—indicated by a basal metabolism of not more than +10 per cent., a basal pulse-rate of 80 or less, and an increase in weight to near the former average—is reported for 17 (60 per cent.) of the cases. The exact length of time required to obtain these results is not clear, though it always exceeded a year; but some improvement was usually seen within three months. Detailed notes are given of 2 patients only, and neither of these had a clinical goitre—a circumstance that is not incompatible with the diagnosis but weakens their value as illustrations. The observation period varied from two months to eight years, with an average of nearly three years. The results given are so good that, if they were generally confirmed, a considerable decline in operations for goitre would undoubtedly ensue; but, if so, it is difficult to understand why a form of treatment which has had an extensive trial in the past should have been largely abandoned. Newman and Garland claim that X ray therapy has no direct mortality, and this is strictly true. But in the wrong type of case postponement of operation for a course of X ray treatment may result in an avoidable fatality.

Two other recent papers, one by a physician the other by a surgeon, do not show radiotherapy in such a favourable light. Even assuming that a number of untraced patients had done well, Dr. Ian Hill [2] records a satisfactory result in only 49 per cent. of irradiated cases as compared with 82 per cent. in the same category that were treated by thyroidectomy. Even more striking are the figures given by Sir Alan Newton in his Listerian oration [3] based on 450 thyroidectomies in private practice, for his operative mortality was only 0·6 per cent., and complete restoration of economic usefulness was attained in over 85 per cent. of the 208 cases in which late results were known. Newton regards X ray treatment as disappointing but thinks it effective in reducing the activity of regenerated thyroid tissue after operation. No detailed results of irradiation are given, but a surgeon who can show so high a proportion of successes is unlikely to have much experience of the alternative methods available to-day. One objection to X ray therapy which has often been raised, but which now seems to have been disposed of, is that by causing fibrosis around the thyroid gland it increases the difficulty of operation if this should later have to be undertaken. Hill reports histological evidence that no such change takes place, and Newton has not observed it at operation. Indeed on this point all surgeons appear to agree.

[1] Newman, W. W., and Garland, L. H., *Surg. Gynec. Obstet.* November, 1938, p. 632.
[2] Hill, I. G. W., *Edinb. med. J.* December, 1938, p. 213.
[3] Newton, A., *Med. J. Aust.* August 20th, 1938, p. 265.

## VITAMIN CONTENT OF COOKED AND CANNED FOODS

IN the spring of this year a new table of the vitamin content of foodstuffs, compiled by Roscoe and Boas Fixsen, was published in *Nutrition Abstracts and Reviews* (vol. 7, No. 4). At the same time a table of the vitamin content of cooked foods was promised. The promise has now been fulfilled, for in the second number of vol. 8 of the same journal Mrs. Boas Fixsen has collected all the "satisfactory" values for cooked foodstuffs that she has been able to find on record. "Satisfactory" is used in the same special sense as in the first set of tables: it means values obtained by biological tests carried out according to certain strictly defined rules, or by chemical tests made according to methods accepted as adequate. The tables are accompanied by a valuable article in which the effects of cooking processes on vitamins are discussed, and generalisations are made wherever possible. The reader will be immediately struck by the disproportionate amount of space devoted to ascorbic acid (vitamin C), both in text and tables, but for this there are good reasons. Ascorbic acid is affected by cooking processes more than any other vitamin, and much research has accordingly been necessary to ascertain its fate, but more important is the fact that it is the only vitamin for which chemical titration has been extensively used. The existence of a rapid and easy method of estimating vitamin-C content has naturally led to the performance of a great many more tests than would be possible with the cumbersome biological method.

The tables are necessarily quite incomplete, for innumerable materials and methods are involved in cooking and canning foods. The attitude of anyone using the tables should be that here are indicated the kinds of influence that cooking has on the various vitamins and the kind of allowance that should be made for destruction by any of the processes involved in preparation as well as in cooking. No one should expect to find a series of exact values that would enable the vitamin value of a hot dinner to be calculated with an error of ± 1 per cent., but he will be provided with a short exposition of the processes involved in cooking and canning, an account of the effects they are likely to have on the vitamin content of foods, and a tabulated selection of authentic values. Thus armed, no dietitian should go gravely wrong.

One important general principle emerges which involves some readjustment of outlook. It is well known that the water-soluble vitamins $B_1$ and C are heat-labile and suffer destruction proportional to the temperature and duration of cooking, the acidity or alkalinity of the medium, and the opportunities for oxidation. It is now clear, however, that the losses from this cause are not always as great as was supposed; a good deal of the loss formerly put down to destruction is actually attributable to leakage of the vitamin from the tissues into the water in which they are cooked. If, therefore, this fluid also is consumed the loss will be considerably reduced. This observation applies also to canned products, and on the whole the losses of vitamins in canning—especially when the container is evacuated and

oxygen is excluded on sealing—are not as great as was formerly believed or as was the case with the older methods of manufacture.

The influence of the ascorbic acid oxidase in vegetable tissues, and the curious and seemingly contradictory behaviour of vitamin C to which its presence may apparently give rise, are discussed in a particularly useful section. Altogether, no dietitian or practical nutrition worker of any kind should be without this pamphlet,[1] which can be obtained as a reprint separate from the journal.

## TROUBLE AFTER PROCAINE INJECTION AND ITS TREATMENT

UNFAVOURABLE reactions to procaine are fortunately rare, but they have occasionally been fatal. The possibility of abnormal sensitiveness to this drug arising after a previous injection is pointed out by Gilman,[2] who distinguishes several types of reaction. The first and commonest is of short duration, follows quickly on the injection, and is mainly suggestive of circulatory failure. The patient is pale with rapid pulse and low blood pressure and he usually recovers rapidly on lowering the head and briskly stimulating the skin of the face. In another variety of reaction the trouble seems to be due chiefly to action of the drug on the central nervous system. In these patients, at a variable period after the administration, excitement appears which may go on to delirium, convulsions, and respiratory failure. Gilman gives details of a typical example in which it was possible that the undue sensitiveness was the result of a previous injection. In a number of the reported fatalities the history of sudden death within a few minutes of administration of a small quantity—e.g., 1 c.cm. Novocain—to a patient who had previously tolerated a much higher dose is suggestive of sensitisation by the first injection. The patient whose case is given recovered completely after intravenous administration of sodium phenobarbital and artificial respiration for an hour and a half. This is the kind of case, rare in anæsthetic emergencies, in which a mechanical respirator is of real service, and actually a Drinker apparatus was used in the saving of this woman's life. The value of barbiturates in combating poisoning by drugs of the cocaine type is well proved; but whether they have any prophylactic effect in the same direction is not at all certain.

## THE TRANSMISSION OF SKIN SENSITISATION

THE route by which a local cutaneous sensitisation to a given antigen travels to the rest of the body has long been in dispute. There are three possible alternatives. First, the antigen may be carried by the blood and lymph channels to the participating cells throughout the body. Secondly, the antigen itself may remain localised at its point of entry, and the antibodies there formed may be distributed by the blood and lymph channels. Finally, the blood and lymph streams may play no part in the transference and the sensitisation may be conveyed by the intercellular fibrillæ from one epithelial prickle-cell to another. At the suggestion of H. T. Schreus, Schreiber and Müller[3] have made experiments with a view to settling the question, and their results may have far-reaching effects on our present conceptions of allergy as a whole and of eczema in particular. Incisions were made in the interscapular area of nine guinea-pigs so as to isolate islets of epidermis without interfering with their vascular, lymphatic, or nervous connexions with the subcutaneous tissues. These living epithelial pedicles were painted daily with a 5 per cent. solution of dinitrochlorbenzene. After 5–7 days, varying with the colour (from white to piebald) of the four animals selected, a severe eczematous reaction, with erythema, vesicles, and crusting, developed in each of the isolated areas. The areas had become sensitised to the irritant. The reaction of the rest of the skin was then tested with a 0·25 per cent. solution of the same compound, but even after 8 days there was not the slightest tendency to the production of eczema in other areas. In other words, a general epidermal sensitisation had not taken place. The reverse experiment was equally decisive. The five other guinea-pigs were universally sensitised to the chemical outside the isolated interscapular areas, and it was then found that the islands did not respond to applications of the weaker solution. If they are confirmed these results will certainly be important, for not only do they solve the problem of epidermal allergic transfer but they also throw light on the nature and function of the intercellular "prickles," the meaning of which has puzzled histologists from the days of Hebra.

## EXPERIMENTAL HÆMOLYTIC ANÆMIA

EARLIER this year we commented[1] on the finding, by Dameshek and Schwartz, of isohæmagglutinins of the immune-body type in the serum of three cases of acute hæmolytic anæmia. Further experimental observations on similar lines are now recorded by the same investigators.[2] They began by preparing anti-guinea-pig hæmolytic serum by the injection of guinea-pig red cells into rabbits, and they found that this serum had all the immunological properties of the serum obtained from their patients—i.e., it was inactivated by heat, reactivated by the addition of complement, made slightly more active by storage in the ice-box for several hours and made somewhat less active by prolonged storage. It was inactivated by incubation with normal serum. After the injection of such a hæmolytic serum into guinea-pigs an anæmia developed, which varied in severity according to the amount of serum used. Fulminating hæmolytic anæmia with hæmoglobinuria, acute hæmolytic anæmia, and subacute hæmolytic anæmia, could be produced at will. In the first instance the red cell count fell from approximately 5,000,000 per c.mm. to 1,000,000 or less, and the animal died. The red cells assumed the appearance usually considered characteristic of acholuric jaundice—i.e., the majority of the cells became smaller in diameter but greater in thickness. In fulminating cases almost all the red cells were spherocytes and showed also an increased fragility in sodium chloride solutions, which is likewise a striking feature in acholuric jaundice. In less acute cases there was a more gradual fall in red cells and a large number of circulating cells were reticulocytes or nucleated cells, though many spherocytes were also present. Dameshek and Schwartz conclude that spherocytosis, both in these guinea-pigs and in man, is due to the activity of

[1] The Vitamin Content of Human Foods as Affected by Processes of Cooking and Canning (with tables). By M. A. Boas Fixsen, D.Sc. Obtainable from the Imperial Bureau of Animal Nutrition, Rowett Institute, Aberdeen. 2*s*.

[2] Gilman, S., *New Engl. J. Med.* Nov. 24th, 1938, p. 841.

[3] Schreiber, W., and Müller, W., *Derm. Wschr.* Nov. 26th, 1938, p. 1393.

[1] *Lancet*, 1938, **1**, 504; Dameshek, W., and Schwartz, S. O., *Ibid*, 1938, **1**, 913.

[2] Dameshek and Schwartz, *Amer. J. med. Sci.* December, 1938, p. 769.

hæmolysins; they do not accept the views more commonly held that spherocytosis depends on abnormal anatomical peculiarities, notably in the spleen, or on a disturbed formation of cells in the bone-marrow. If (as they believe) increased fragility is a function of increased thickness of the red cell, it presumably arises from the same cause. They lastly conclude that all hæmolytic syndromes are due to hæmolysins, possibly of different types and present in different amounts, acting slowly in some cases and violently in others. The various blood pictures of the hæmolytic anæmias—viz., anæmia, spherocytosis, increased fragility, and reticulocytosis are, they think, probably attributable to the effect of the varying activity of hæmolysins and are modified by the individual's power to react.

These observations are certainly stimulating, though some of the conclusions appear unduly definite. For instance Cassells has lately shown, in a study of red cell fragility in different conditions,[3] that cell thickness cannot be considered the only factor influencing all fragility, so confirming the earlier observations of Vaughan,[4] who showed that in acholuric jaundice following splenectomy red cell fragility might remain unaltered while spherocytosis was lost. Dameshek and Schwartz conclude, however, without further discussion, that increased cell fragility is a function of cell thickness only. But the production of experimental hæmolytic anæmias so closely resembling certain clinical conditions should help to clear up this and other important difficulties.

## THE ACTION OF DRUGS ON THE BILE-DUCTS

THE influence of drugs on the sphincter of the common bile-duct is of practical interest, because of the help it may afford in the treatment of biliary colic, and of the much more common minor biliary pains. The subject was investigated last year at the Mayo Clinic,[5] by taking pressure readings in a T drainage-tube inserted into the common duct at operations and by radiography of the bile-duct filled with opaque oil. It was found that morphine gr. ¼ caused spasm of the sphincter and consequently a rise of pressure in and distension of the common duct. In patients who were liable to the "post-cholecystectomy syndrome" this dose of morphine induced an attack of the pain. Larger doses prevent the appreciation of the spasm by centrally depressing the sensation of pain, but it was demonstrated that they caused an even greater rise of biliary pressure which lasted for two hours or more. Morphine is, then, fundamentally an undesirable treatment for biliary colic. The vasodilators caused a dramatic relaxation of the sphincter, both in spontaneous spasm and in that produced by morphine. An intramuscular injection of Aminophyllin (a mixture of theophylline and ethylene diamine) was more effective than amyl nitrite or nitroglycerin. The spasm induced by morphine was unaffected by atropine and many other drugs that might have been expected to be active. Atropine may be incapable of relaxing a sphincter already stimulated by morphine, however, and yet be effective in preventing spasm or in curing spontaneous spasm. Many clinicians think that in treating biliary colic it is best to give a full dose of atropine a minute or two before giving morphine; further work is now needed to establish this impression on a scientific foundation, or, if it is baseless, to get rid of it. The application of the vasodilator drugs to the treatment of biliary spasm should bear useful fruit in clinical therapy, and they may be found to offer an unexceptionable substitute for morphine.

[3] Cassells, D. A. K., *J. Path. Bact.* 1938, **47**, 603.
[4] Vaughan, J. M., *Ibid*, 1937, **45**, 561.
[5] Walters, W., McGowan, J. M., Butsch, W. L., and Knepper, P. A., *J. Amer. med. Ass.* 1937, **109**, 1591.

## LAY ANALYSTS AT L.C.C. MENTAL HOSPITALS

AT the request of Dr. Edward Glover, director of the Institute of Psycho-analysis, the London County Council has given permission for students in training at the institute to attend the examination of mental patients at St. Bernard's Hospital, Southall. The medical superintendent, Dr. J. B. S. Lewis, and his staff have offered to coöperate in giving these non-medical trainees some experience of the major psychoses as a background to their more general experience. Dr. Lewis has advised that such training may help the lay analyst to deal with children in need of guidance; he does not foresee the lay analyst playing any substantial part in the treatment of advanced mental disorder. The minute of the mental hospitals committee makes it clear that the permission does not open the way to the employment of lay analysts in any capacity at L.C.C. hospitals or in after-care work, but the proposal was opposed by the medical members of the committee who asked for further information about the scope of the work to be undertaken and the safeguards to be demanded for the protection of the public.

We find it difficult to see the value to students of being present during psycho-analysis of patients which cannot be carried on à trois. Furthermore, if the exclusion of "advanced mental disorder" was intended to open the way for lay analysts to treat all other mental disorders, that would mean the psychotherapy of cases now undertaken by the medically trained psychiatrist. Permission was granted in the first instance for one year, with a proposal then to review the arrangement. Meanwhile thoughtful consideration might be given to the question whether the recognition of non-medical psychotherapy will or will not benefit the community.

## MIASMATA AND CONTAGIA

IN 1840 Jacob Henle, recently appointed professor of anatomy at Zürich, published a volume of pathological researches, the first and by far the most important paper in the volume being that entitled "Von den Miasmen und Kontagien"; it is this paper that Dr. Rosen of Baltimore has now done into English.[1] The idea that infectious disease was the result of invasion by living particles from outside the body was an old doctrine, but at the time at which Henle wrote it was not the orthodox opinion of the leading medical men of Europe. Henle however had arrived at the conclusion that the idea had a substantial basis, and had been, as is clear from the paper itself, greatly impressed by the discovery three years previously of the yeast organism as the cause of the fermentation of beer and wine, and even more so by the demonstration of the infecting fungus of muscardine, a contagious disease of the silkworm, by Bassi and Audouin. These discoveries had been announced in 1837 and 1838, and it is a point of interest that Henle should have been so early acquainted with researches which were at first sight somewhat outside his special sphere. Whether it was these discoveries which first convinced him of the essential truth of the doctrine of *contagia animata*, or whether, as seems from the contents

[1] Jacob Henle: On Miasmata and Contagia. Translated by George Rosen, M.D. Baltimore: Johns Hopkins Press. 1938. Pp. 77. $1.

of the paper more probable, they merely fortified his previous opinions, he set to work to prove the truth of the hypothesis by means of deductive reasoning from ascertained facts. Though he appeals several times to the results of direct experiments, these results went rather to demonstrate negative propositions; yet he was able by an acute analysis of a great number of conflicting phenomena to enunciate clearly a hypothesis which covered existing knowledge, and to define accurately the conditions which would confirm it. Thirty years later Koch, who had been one of Henle's pupils, laid down his famous postulates and showed that they were fulfilled by the bacterial organisms in certain types of disease. He thus demonstrated the truth of his teacher's deductive reasoning, and Henle lived to see his doctrine fully established.

The paper is not very easy reading, and Dr. Rosen suggests that the occasional obscurity of language is due to the fact that Henle was hampered by the want of an accepted scientific terminology, and was compelled to resort to lengthy and involved periphrasis in order to express his novel opinions. That may be partly the effect of the language in which he wrote. Latin, the medium of earlier medicine, and French are probably superior to English or German as vehicles of novel ideas; though there have been splendid exceptions to the general rule, it remains true, we think, that Latin and French are capable of greater precision and exactness of phraseology.

## MEMORIAL TO THOMAS LINACRE

OVER 400 years ago there departed from this life Thomas Linacre, one of that famous group of scholars who were the renown of Renaissance learning, and laid the foundations for the brilliant outburst of Elizabethan literature. In the present month a memorial in his honour has been dedicated in the church of Old Brampton, near Chesterfield, in the county of Derby. Linacre was almost certainly a native of Derbyshire, and is believed, though on less certain evidence, to have belonged to the family of Linacre Hall in the parish of Old Brampton, a house which has long ago disappeared, and whose site in the parish is not surely ascertained. The new choir stalls, the gift of an anonymous benefactor, will serve to link Linacre's name more securely with Old Brampton.

Like many another scholar of his period Linacre owed his early training to learned ecclesiastics, and appears to have been one of the first Englishmen to apply himself to a mastery of Greek. He was approaching the age of thirty when he had the opportunity of visiting Italy, where he pursued his learned studies in Rome, Florence, and Padua, and already widely known as a learned scholar proceeded to a degree in medicine at that famous university. He returned to England and seems to have taught in Oxford, but early in the new century came to court as tutor to Henry VII's eldest son. He soon became physician to the king, and numbered among his patients many of the most distinguished persons of the realm. In 1518 at the summit of his fame he procured the establishment of the Royal College of Physicians, of which he became the first president. His other foundations at Oxford and Cambridge were established by provision in his will in 1524, the year of his death. That at Oxford has undergone many vicissitudes and is now surviving in the title of the chair of comparative anatomy, but that at St. John's College, Cambridge, has been exalted by a long succession of the most illustrious names in English medicine. Of all the long line of distinguished men in the history of medicine there is no name more closely associated with the advancement of learning than that of Linacre, and this new memorial serves to remind us of our lasting debt to the Tudor scholar.

## INFERTILITY AND STERILITY

ANALYSING the examination and treatment of 200 childless couples, Stein[1] finds that "infertility" is commoner than sterility as a cause of childlessness. He uses this term to denote lowered fertility in the absence of a demonstrable cause of sterility, and in this sense it is a relative condition arising from characteristics in one or both mates, which in the aggregate form a barrier to conception. Of the 200 childless couples under review, 103 were classified as infertile and 97 as sterile, and the husband was proved responsible for childlessness in slightly over a third of the cases of sterility. In study of the wife radiographic methods played a large part, and Stein agrees with other observers that these methods are incidentally therapeutic; indeed he often carries out a Huhner's test (examination of semen from the vagina) immediately before investigating the patency of the tubes, in the belief that any sperms present in the uterus will be given a new chance of migrating through the oviducts. Treatment of one kind or another was followed by pregnancy in nearly half the cases of childlessness due to infertility, and in 15 per cent. of childlessness due to sterility. Of the surgical methods employed in the treatment of the female, the most profitable were linear cauterisation of the cervix, and lateral cortical wedge-resection of the ovaries where these were both polycystic. Stein has also performed these wedge-resections, which have been tried in this country by Bailey,[2] in a number of unmarried girls, often suffering from amenorrhœa; not only was menstruation established, but some of them bore children after marriage. Hormone therapy seems to have played only a small part in treatment, the most useful extract being thyroid. Œstrogenic preparations were used in the treatment of hypoplasia and, despite little change in the size of the uterus, pregnancy sometimes followed. Stein is also hopeful about the future utility of gonadotropic (pregnant-mare) serum in re-establishing ovulation.

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MRS. E. M. LOWE, who is to be nominated next year chairman of the London County Council, is the widow of Dr. George C. Lowe, F.R.C.V.S., who was in partnership with Dr. Alfred Salter, M.P., in Bermondsey.

Surgeon Rear-Admiral F. J. GOWANS is retiring. He has been in charge of the R.N. Hospital at Plymouth for the past three years and he will be succeeded in this post by Surgeon Rear-Admiral G. F. Syms.

AT the memorial service to Sir Cooper Perry held at St. Martin-in-the-Fields on Dec. 22nd a hymn from the Latin of Gregory the Great was sung to the tune "Vesalius" composed by Cooper Perry.

THE Duchess of Gloucester has accepted the presidency of the West London Hospital in succession to the late Prince Arthur of Connaught.

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[1] Stein, I. F., *Surg. Gynec. Obstet.* December, 1938, p. 731.
[2] Bailey, K. V., see *Lancet*, 1937, **2**, 82.

# SPECIAL ARTICLES

## COWPOX INFECTION IN FARMWORKERS

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Although cowpox infection of farmworkers is not often recorded in this country, this may well be because the disease is not usually severe, and may not always be recognised. The difficulty of diagnosis, moreover, may be increased by the reluctance of the patient, for economic reasons, to disclose the source of his infection. A case in Berkshire was recorded by Cruickshank in 1910, and Green (1908) and Reece (1921) have recorded outbreaks in Hertfordshire and Somersetshire. The recent observations of Blount (1937) indicate that cowpox in cattle is not uncommon in Sussex, and the cases now described were seen in that county—on a farm near Brighton in September, 1937.

When the patients were first seen the disease in the cattle, which had been responsible for the human cases, was on the wane. The history of the outbreak is apparently as follows.

On or about Sept. 7th it was noted that a few of the cows on the farm had hard warty inflamed nodes on the teats. The udders were not affected. These nodules ulcerated or were broken in the process of milking and discharged a blood-stained fluid. The lesions healed up after two or three weeks. Altogether 20 animals were affected, and the epidemic lasted about six weeks. The cattle were not seen by a veterinary surgeon until the disease had been present for some time, and a definite diagnosis of cowpox was no longer possible.

The cows were milked by machine and "stripped" by hand. The udders were washed before milking. Of the four men engaged in the milking three became infected and developed lesions on the hands. Contagious abortion was present in the herd, but apart from this the cattle were healthy, save that one heifer had an infected wound between the hoof and dew claw on one leg. This was first noticed on August 5th, and the wound had been dressed in turn by the three men whose hands became infected.

### CASE RECORDS

Case 1.—This man, aged 24, was a son of the farmer and had never been vaccinated. He had dressed the infected wound in the heifer from August 5th to Sept. 10th, when he handed over the animal to the next patient. He remained perfectly well until Sept. 24th, when the right arm began to swell above the elbow, apparently owing to involvement of the epitrochlear gland. This was followed by enlargement of the axillary glands. Two days later a bulla appeared on the right fifth finger. This finger and adjacent parts of the hand became swollen though not painful. Next day the patient's temperature was 102·7° F., and he retired to bed. On Sept. 28th a bulla appeared at the site of a scratch on the palmar aspect of the third finger of the right hand. This finger began to swell, and his temperature was 101·2° F. Next day the temperature returned to normal. On Sept. 30th the bulla on the third finger ruptured. Two days later the blister on the fifth finger also broke down and discharged blood-stained pus.

When this patient was seen on Oct. 6th (J. H. T. D.) both fingers were swollen and stiff. The lesion on the fifth finger is shown in the Figure. The skin was macerated as the result of repeated fomentations, but the swelling was not like that of acute sepsis; it rather gave the impression of the hard woody induration of a chronic œdema. The ulcers had no distinctive features. They were circular, and the edges shelved gently towards the centre, which consisted of dark red granulations with but slight tendency to bleed.

The discharge from both fingers continued until Oct. 23rd, when improvement began, and the ulcers were not completely healed until one month later—i.e., eight weeks from the onset. Blood was taken from this patient for serological investigation on Nov. 1st, approximately five weeks after the beginning of the illness.

Case 2.—This boy, aged 17, was brother of Case 1 and had never been vaccinated. He had dressed the heifer's leg wound from Sept. 10th to 24th. On this date a blister was noticed on the fifth finger of the right hand, and fomentations were applied. Next day the finger was swollen and the axillary glands became enlarged and tender. On the 28th the patient felt ill and took to bed. For the next few days the temperature fluctuated between 100° and 103° F., and on Oct. 9th his evening temperature was still slightly raised—99° F. The appearance of the finger on the 6th is seen in the Figure. On Nov. 16th the finger was still swollen and the lesion was scabbed over, but by the end of that month the finger had completely healed. Blood was taken on Nov. 16th, approximately seven weeks after the onset of his illness.

Case 3.—This was a man, aged 29, who had been vaccinated in infancy and again at fifteen. He also stated that he had had cowpox at eighteen. He had dressed the heifer's leg regularly from Sept. 24th to 29th and had done so occasionally during the previous six weeks. On the 29th a "blood blister" appeared on the dorsal aspect of the first interdigital web of the left hand, and next day glandular swellings were noticed in both axillæ. On Oct. 2nd a swelling appeared on the palmar aspect of the proximal phalanx of the third finger of the right hand. Four days later this lesion was a soft rounded cone-shaped elevation, 6 mm. in diameter and 3 mm. high, containing apparently a dark blood-stained fluid (see Figure). The other two patients agreed that this lesion was similar to the original ones on their own fingers, although it differed in appearing to contain much more blood. They stated that it strongly resembled those they had seen on the teats of the cows.

This third patient had no febrile illness; the axillary adenitis subsided rapidly and had entirely disappeared within two weeks from the onset. The lesions on the hands healed within four or five weeks. Blood was taken from this patient on Nov. 1st, just over a month after the appearance of the first lesion on his hands.

### INVESTIGATIONS

*Examination of the blister fluid obtained from Case 3.* When the patients first came under observation the lesion on the third finger of the right hand of Case 3 was the only one unbroken. The skin over the bulla was cleaned with ether, and blood-stained mucoid fluid was obtained by aspiration with a sterile syringe. Part of this fluid was diluted with sterile saline and stored at 0° C. The remainder of the fluid was examined for the presence of bacteria. Films made from it and stained by Gram's method showed pus cells but no bacteria. Cultures put up

in broth, glucose broth, litmus milk, nutrient agar, and blood agar showed no growth after several days, and similar media together with cooked meat which were inoculated with blister fluid and incubated anaerobically remained sterile. The fluid which had been kept at 0° C. was then sent to the London Hospital for further investigation.

### LABORATORY INVESTIGATIONS

The fluid from Case 3 was inoculated into the pads of a guinea-pig on Oct. 18th—i.e., twelve days after it had been taken from the patient's lesion. No reaction having appeared after three days, the fluid was inoculated again on the pads of the same animal. An inflammatory reaction appeared two days later on one pad, and from this source further guinea-pigs were inoculated by the same route. Later animal experiments were carried on in many instances with bacteria-free filtrates of infective material obtained by the use of gradocol membranes or Berkefeld V candles. Cultures on the chorio-allantoic membranes of developing hens' eggs were initiated from filtrates of pad lesions in guinea-pigs; rabbits, infected in series, showed typical lesions on intradermal injection. Comparison of the virus with a strain of cowpox recently isolated by Mr. R. E. Glover of the National Institute for Medical Research, Mill Hill, from typical lesions in a cow seen in another part of the country indicated that the virus isolated from Case 3 was cowpox. To avoid confusion in what follows this virus is referred to as "Brighton" virus. The investigation of material from the cattle was hampered by the lack of coöperation on the part of the farmer, and by the time the nature of the infection was established the lesions on the cows' teats had cleared up. On Nov. 7th, however, material was obtained from the sinus in the heifer's leg. Inoculation of the material, both filtered and unfiltered, failed to produce lesions in the pads of a guinea-pig or on the chorio-allantoic membranes of eggs.

Cowpox lesions. From right to left: right hand of Case 1, right hand of Case 2, left and right hands of Case 3. (Photograph taken Oct. 6th, 1937.)

*Experimental human infection with the virus isolated from Case 3.*—Before the nature of the virus had been clearly established, experimental infection of an adult male (A) was attempted with the fluid from an infected egg-membrane of the tenth passage in series. Successful vaccination of this person with commercial vaccine lymph had been carried out fifteen years before, and in 1935 revaccination with lymph did not take. Blood was taken on Nov. 11th, 1937, and on the 26th a 1 in 10 dilution of supernatant fluid from an infected egg-membrane was inoculated into the skin of the forearm by scarifying. After 24 hours a narrow zone of erythema appeared round the line of scarification, and the edges became raised and rather red. The control inoculation with broth remained negative. The reaction increased slightly in extent during the next two days, after which the erythema slowly disappeared. There was no vesiculation, nor was there any adenitis of the axillary glands or general disturbance. On Dec. 17th 0·2 c.cm. of a 1 in 10 dilution of supernatant fluid from the thirteenth serial culture on eggs was inoculated intradermally into the skin of the forearm, broth being used for a control injection. After 24 hours a red papular swelling, which was slightly painful and measured about 1 cm. in diameter, was present at the site of injection of the virus. The area involved increased slightly in extent up to 48 hours, after which there was no further increase in size, nor was there any vesiculation. After a week the reaction was much less; the lesion, though still red and slightly tender, was less prominent, and three days later it had almost disappeared. The control injection of broth had produced a transitory area of erythema, which had disappeared in 48 hours. A further sample of blood was obtained on Jan. 3rd, 1938, seventeen days after the intradermal injection of virus.

*Examination of sera for antibodies.*—There were thus available for examination sera obtained from the three patients and samples of serum from A before and after inoculation with Brighton virus. Two post-vaccination sera were obtained from two young adults, H and W, who had recently been vaccinated with commercial vaccine lymph for the first time. Both these men had shown a good local pustular take and both suffered from moderately severe axillary adenitis and constitutional symptoms from the eighth to the fourteenth day after vaccination. Serum H was obtained 15 and serum W 23 days after vaccination. As control sera several samples from normal persons, who had not been vaccinated or revaccinated within the previous few years, were used.

*Complement-fixation tests.*—In the preparation of soluble antigen for complement-fixation tests the method described by Craigie (1932) was used. Virus was inoculated into the lightly scarified shaved skin on the backs of rabbits. Four or five days later the animals were killed, and the suspension of pulp obtained by scraping the infected skin was filtered through a Seitz filter. The clear filtrate was used as antigen. In this way soluble antigen was prepared from the Brighton virus and from a strain of vaccinia which had been propagated in rabbits for some

considerable time at the Lister Institute. These antigens, in a dilution which had been chosen as a result of preliminary tests, were mixed in equal volumes with dilutions of sera and complement. After they had stood at room temperature for four hours, sensitised cells were added. The tests were kept at 37° C. for 30 minutes, then at room temperature overnight before the results were read. The results of the tests are shown in Table I.

It will be seen that the sera of all three patients gave positive reactions with both Brighton and vaccinia antigens, although the reaction in each instance was stronger with the Brighton antigen. This is also the case with serum A obtained after infection with the Brighton virus. The antigens were approximately of similar strength as determined by tests with immune sera prepared in rabbits. It is apparent that the naturally acquired or experimentally produced infection with cowpox virus induced an antibody response to the homologous virus, and that this antibody reacted with antigen prepared from a "laboratory" strain of vaccinia to a somewhat lower degree. The sera from the two persons who had been inoculated with vaccine lymph gave negative results with both antigens in spite of an obvious local and general reaction to the infection. Variation in antibody response after vaccination has been noted by other workers, but the above results, despite the small number of sera examined, suggest that infection with cowpox derived from the spontaneous disease in cattle gives a better antibody response than does vaccination with commercial lymph. The infection in the first two patients was more severe and of greater duration than that generally associated with vaccination, and this may have been responsible for the better antibody response in these cases.

*Virus neutralisation tests.*—The sera from the patients and certain other sera were tested for their power to neutralise the Brighton virus and vaccinia virus. The sera were inactivated by heating at 56° C. for 30 min., and equal volumes of the undiluted sera were mixed with tenfold dilutions of the virus under examination. The mixtures were allowed to stand at room temperature for 1½–2 hours before 0·2 c.cm. volumes were injected intradermally into rabbits. The same virus suspension was used for testing the three patients' sera and their corresponding control sera, two rabbits being used for each serum under test and its control serum. A fresh virus suspension more potent than the first was used for the other four sera, titrations being made on four rabbits. Although not entirely comparable the results with the seven sera are included in one table (Table II). The results were read four or five days after injection of the mixtures.

It is apparent from these results that the sera of all three patients and the serum A taken after infection with Brighton virus show definite neutralisation of this virus, while the latter serum and that of Case 3 also show neutralisation of vaccinia virus. It seems possible that the lack of neutralising power for vaccinia virus of the sera from the first two patients may have been due to the fact that they had never previously been vaccinated. In the other two the cowpox, acting as a secondary stimulus, caused a greater production of neutralising antibody, which was effective also against the strain of vaccinia virus used. The tests with the post-vaccination serum H agrees with the negative complement-fixation reaction in indicating a lack of serum antibody detectable by the methods used. More delicate tests for antibody, such as fixation overnight in the ice-box for complement fixation and the intracerebral injection of mice with serum-virus mixtures in neutralisation tests against vaccinia (Haagen 1936), might have yielded evidence of antibody in sera which were negative with the tests indicated above, but at least the results obtained are of value for purposes of comparison.

## COMMENT

That cowpox is natural to cattle and independent of infection from human sources, either vaccinated persons or cases of small-pox, there can be no doubt. The affection seems to be much more prevalent in some parts of the country than in others and, as Blaxall (1930) and Frenkel (1930) have emphasised, often no contact with human sources of infection can be detected, although the infection once introduced into a herd of cattle may be spread by the hands of the milkers. The source of infection in the present outbreak was not determined, but there is reason to believe that cowpox is by no means uncommon in this part of Sussex. The nature of the lesion in the heifer's leg remained uncertain, for exudate from the sinus was not obtained until weeks after the onset, and at this time numerous and various bacteria were present. It seems unlikely that this lesion was the source of infection for the other animals, because the interval between the discovery of the wound and the appearance of the teat infections was rather long. For the same reason it is improbable that the infection in the first human case could have arisen from the heifer. The eruption on the teats of the cattle was the most obvious source of infection of the human cases, and the process of "stripping" the cows' teats after milking would have afforded ample opportunity for infection of the milkers' hands.

The absence of constitutional symptoms in the third patient was probably due to his previous vaccination and to the previous attack of cowpox from which he states that he had suffered. Cowpox in those previously vaccinated is not unknown. In the cases reported by Reece (1921) many of the patients had been vaccinated in infancy, and Case vii of Jenner's famous "Inquiry" (1798) records cowpox in persons who had suffered from small-pox previously, although in these the infection followed a much milder course than in a person who had not had this experience. Jenner also records a man who suffered from three attacks of cowpox (Case ix).

The examination of the patients' sera for antibodies was greatly facilitated by the fact that experimental infection of laboratory animals was achieved with material from the third case. The antibody response in the men infected with cowpox from the natural disease of cattle was greater than that of persons who had been successfully vaccinated with vaccine lymph, although the number of sera examined was too small to permit of generalisation on this point. The tests of the sera for antibody to the virus of natural cowpox and to the strain of vaccinia used indicate that, although these two viruses are closely related, there may be some immunological difference between them. This point is being investigated, and the results will be recorded later.

When these cases first came under observation, the possibility that they were related to the condition described by continental authors as *Melkerknoten* or milkers' warts was considered. Cases of this disease have been described by Bonnevie (1937), who has reviewed some of the recent work on the subject. It seems that the term *Melkerknoten* has been applied to a definite clinical condition seen on the hands, arms, or face of milkers, associated with the presence of nodular lesions on the teats of cattle,

TABLE I—COMPLEMENT-FIXATION TESTS WITH VARIOUS SERA AND SOLUBLE ANTIGEN FROM BRIGHTON AND VACCINIA VIRUSES

| Sera tested | Brighton antigen | | | | | Vaccinia antigen | | | | | No antigen. Serum 1/5 controls |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Serum dilutions | | | | | | | | | | |
| | 1/5 | 1/10 | 1/20 | 1/40 | 1/80 | 1/5 | 1/10 | 1/20 | 1/40 | 1/80 | |
| Case 1 .. .. .. | ++++ | ++++ | ++ | − | − | ++++ | +++ | − | − | − | − |
| „ 2 .. .. .. | ++++ | +++ | ± | − | − | +++ | + | − | − | − | − |
| „ 3 .. .. .. | ++++ | ++++ | ++++ | +++ | + | ++++ | ++ | − | − | − | − |
| Serum A (Nov. 11, 1937) | − | − | − | − | − | − | − | − | − | − | − |
| „ A (Jan. 3, 1938) .. | ++++ | ++++ | + | − | − | ++++ | ++ | − | − | − | − |
| Sera H and W and normal human sera .. .. | − | − | − | − | − | − | − | − | − | − | − |

++++ = complete fixation (no hæmolysis). − = no fixation (complete hæmolysis).

but it appears doubtful whether all the cases described have been identical ætiologically. The typical lesions are painless bluish-red indolent nodes varying in size up to 2–3 cm. in diameter; usually there are no constitutional symptoms, although enlargement of axillary glands is not uncommon, and the lesions clear up after 6–10 weeks without scarring. The histological picture would seem to be that of a vascular granuloma of the dermis associated with considerable hypertrophy of the epidermis, the cells of which show compact acidophil inclusions. There seems to be no reciprocal immunity between the causal virus and vaccinia, for the condition has been recorded in persons who have been successfully vaccinated shortly before (Stark et al. 1934, Salkan 1933), and successful vaccination after subsidence of the lesions has also been noted (Wendlberger 1933, Salkan 1933, Katzenellenbogen 1935). Most authors regard the condition as distinct from cowpox in man; others suggest that an attenuated cowpox virus may be responsible; whereas Schultze, Seifried, and Schaaf (1927) and Stark and his colleagues (1934), as a result of animal experiments, believe that *Melkerknoten* is an infection with cowpox virus. The cases recently described by Peterkin (1937) in this country and believed to be due to infection with the virus of contagious pustular dermatitis of sheep were similar in their clinical features to the *Melkerknoten* of continental authors. Many of Stark's cases were apparently infected from sheep.

Of the three cases described in this paper the third resembled the milkers' warts described by Bonnevie and others, although even in this case the lesions did not show the raised solid appearances typical of most cases of milkers' warts. However, the strain of virus isolated from this patient produces in the skin of rabbits nodular hæmorrhagic lesions which show typical compact acidophil inclusions in epithelial cells not unlike those described in *Melkerknoten* by Kaiser and Gherardini (1933) and by others. Nevertheless, without examination of further cases and exchange of material with other workers, we cannot be certain that our cases, which were due to infection with cowpox virus, were ætiologically similar to the milkers' warts described on the Continent. To clear up the confusion in this field further work is necessary to determine the nature of the infective agent responsible for the lesions in man and in the animals from which the human cases may have been infected.

TABLE II—NEUTRALISATION TESTS WITH VARIOUS SERA AGAINST BRIGHTON AND VACCINIA VIRUSES CONTAINED IN MIXTURE WITH SERUM

| Sera in mixtures | Brighton virus | | | | | | Vaccinia virus | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dilutions of virus in mixtures | | | | | | | | | | | |
| | $10^{-2}$ | $10^{-3}$ | $10^{-4}$ | $10^{-5}$ | $10^{-5}$ | $10^{-7}$ | $10^{-2}$ | $10^{-3}$ | $10^{-4}$ | $10^{-5}$ | $10^{-6}$ | $10^{-7}$ |
| Case 1 .. .. .. | ++ | ++ | ± | − | − | 0 | ++ | ++ | ++ | ++ | + | 0 |
| N.S. 1 .. .. .. | +++ | +++ | +++ | ++ | + | 0 | ++ | ++ | ++ | ++ | + | 0 |
| Case 2 .. .. .. | ± | ± | − | ± | − | 0 | ++ | ++ | ++ | + | + | 0 |
| N.S. 2 .. .. .. | +++ | +++ | +++ | + | + | 0 | ++ | ++ | ++ | ++ | + | 0 |
| Case 3 .. .. .. | − | − | − | − | − | 0 | ++ | + | ± | − | − | 0 |
| N.S. 3 .. .. .. | +++ | +++ | ++ | ++ | + | 0 | ++ | ++ | ++ | + | ± | 0 |
| Serum A (Nov. 11, 1937) | 0 | +++ | +++ | ++ | + | ± | ++ | ++ | ++ | + | ± | 0 |
| „ A (Jan. 3, 1938) .. | 0 | ++ | + | ± | − | − | − | ± | ± | − | − | 0 |
| „ H .. .. .. | 0 | ++ | ++ | ++ | ± | ± | ++ | ++ | ++ | ++ | ± | 0 |
| N.S. 4 .. .. .. | 0 | +++ | ++ | ++ | + | ± | ++ | ++ | ++ | ++ | + | 0 |

N.S. = normal human sera. 0 = indicates that this dilution of virus was not used in the mixtures.
+++ = indicates a lesion of average diameter 25 mm. or more. | + = indicates a lesion of average diameter 7–15 mm.
++ = „ „ „ 15–25 mm. | ± = indicates a tiny papule or small area of erythema.

SUMMARY

(1) Three cases of infection of the hands of farm-workers with cowpox are recorded. (2) The evidence indicates that infection was contracted from lesions on the teats of cattle during the process of milking. (3) The examination of the sera of the three cases and a fourth serum from a person experimentally infected with cowpox virus showed a good antibody response. The antibodies were more active against the cowpox virus obtained from one of the cases than against a stock strain of vaccinia virus which had been propagated on laboratory animals for some time. (4) The possible relation of the cases described to the milkers' warts of other authors has been discussed.

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# MEDICINE AND THE LAW

## Chemical Worker and Cancer of the Bladder

AN inquest was held at Manchester recently upon the death of a worker employed by Imperial Chemical Industries. His work had involved spreading wet paste colour on trays and placing the trays in an oven to dry; afterwards he would have to remove the trays and empty the powder into containers. The pathologist's report indicated that pieces of tissue from the dead man's bladder showed malignant disease. Asked if cancer of the bladder was common to chemical workers, the pathologist (Dr. William Susman) replied that it had been so recognised for a long time in Germany and other countries where dye works had been operating for some years. An increase in the incidence of cancer in the bladder, he said, was anticipated. He gave statistics which suggested that cancer of the bladder had increased in the Manchester district recently in relation to the total of general cancer cases. In his experience the disease was rare; it usually occurred in persons of 50 years of age or over. Asked by the coroner if the age of the dead man strengthened his view that the growth was connected with his occupation, Dr. Susman replied that there was a presumption that the aniline dye had something to do with it. A representative of the employers invited the witness to say that there was a greater incidence of this disease among non-chemical workers than among chemical workers. The witness answered that he might be prepared to agree with regard to the next 20 years, because the dyeing industry in England and America is comparatively young; the real incidence of cancer of the bladder had yet to come. The coroner remarked that all chemical workers at this factory had their urine tested from time to time; he asked if the object of this test was not to obtain early information of the disease. The witness agreed. Mr. F. H. Scotson gave evidence that death was due to peritonitis caused by cancer of the bladder. He could not disregard the work among chemicals in stating the cause of death. Doctors assumed that chemical processes—not necessarily aniline dyes but possibly some allied substance—had something to do with cancer of the bladder. He did not accept the suggestion that the disease is an established hazard of a chemical worker's employment; it was suspect. The disease had been experimentally produced in animals by giving them certain chemicals used in industry; if it were produced in animals, a like result might happen with human beings. The jury returned a verdict of accidental death.

## Damages for Fright

As a pendant to the decisions on damages for nervous shock summarised in this column last week, mention should be made of a case settled a few days later at the Manchester assizes. Mrs. Smith, standing on a corner at some cross roads near Manchester last June, saw a motor lorry come into collision with a motor-car. She collapsed with fright and was taken to hospital; her life was for some weeks in danger and medical opinion indicated that she might now be regarded as an invalid for life. After answering a few questions from her counsel, she became distressed and had to be assisted from the witness-box. She had sued both the motorist and the lorry-owners, and the case was settled by an agreement that £2500 damages should be paid by such one or more of the defendants as might be guilty of negligence. The court, sitting without a jury, apportioned the blame half and half between the two defendants.

In opening the case Mrs. Smith's counsel said that the claim might have caused some difficulty but for the decision in Owens *v.* Liverpool Corporation a few days earlier. It scarcely seems, however, that the cases were strictly comparable. There might have been a question whether Mrs. Smith's fright was due to her anxiety for others or her anxiety for herself "It appeared to her," said her counsel, "that the motor-car was coming straight for her." If it was anxiety for her own safety it is incontestable that she would have been entitled to recover damages, provided that her nervous condition could reasonably be ascribed to the negligence of the driver or drivers involved in the collision. If she was frightened by the sense of imminent danger to other persons with whom she was not closely identified, the views of Lord Atkin (delivered as a member of the Court of Appeal) in the Hambrook case in 1925 indicate that a mere bystander may be entitled to damages. Owens *v.* Liverpool Corporation, discussed here last week, was a case of shock to the near relatives of the deceased when, in a funeral procession, they saw the hearse struck by a negligently driven tram-car The real issue in that case was whether damages can be given for acute feelings of disgust or distaste aroused by negligent conduct at a moment when the plaintiffs' minds were affected by the circumstances of burying a near relation. There was no element of personal danger.

## A Surgeon's Finger

In Hett *v.* MacKenzie the Court of Session had to consider the pecuniary loss caused by injuring the finger-tip of a London surgeon. Mr. Seccombe Hett, his wife, and a gillie were driven to a loch near Ullapool in May, 1937. On alighting, he placed his right hand on the centre pillar of the front door of the car while assisting his wife, who was very lame,

to leave the vehicle. The driver slammed the front door, catching the surgeon's middle finger across the nail between the flange and the pillar, and severing part of the bone at the finger-tip. Lord Keith held that the driver should have looked to see that the passenger's hand was not in danger before he shut the front door. His failure to do so was negligence. The victim had suffered permanent disfigurement and a loss of sensitiveness in the finger-tip. He was a specialist in ear and throat surgery and would suffer from his injury in carrying out operations, particularly in tonsil cases. He might be unable to undertake some of the more difficult throat operations and he might have to rely on an assistant's services more than formerly. The court expressed its inability to gauge the pecuniary loss. The surgeon was incapacitated for some time after the accident and subsequently was limited to purely consultative work for a period. No figures had been produced to show his average gross monthly earnings during the year. He was now 60 and he frankly admitted his intention to retire at 70. He had claimed £2000. The court awarded £750 damages.

### Value of Expectancy of Life

The same difficulty of assessing the pecuniary liability of defendants is continuing to exhibit itself in those cases where, by a recent change in the law, the estate of a deceased person can sue for the diminished expectation of life due to the defendant's negligence. Mr. Justice Charles, who has tried several of these cases, has evolved a formula which seems to be well justified. He tells the jury that they must interpret in terms of money the lost expectancy of life; the law requires them to do this and the court cannot help them; the task is incalculable since it involves seeing into the future—a faculty possessed by Providence alone. In a recent case (Bailey *v.* Howard) a man's daughter, aged 3, had been killed in her perambulator. Mr. Justice Charles said the child might have otherwise died at 4 or lived to the age of 70. The jury awarded £1000 for the loss of expectation of life and the judge thought it excessive. If he had tried the case without a jury, he said, he would have awarded no more than £150. The Court of Appeal has now dismissed an appeal against the award. The Lords Justices thought the trial judge was wrong if he suggested that the personal representatives of a dead person had a right only to substantially less damages than the dead person possessed during his life. But otherwise the award was right and must stand. The Court of Appeal said there was no means of arriving at a quantitative scale for the guidance of judges and juries except the gradual working out, through the common sense of juries, of the sort of figures which could be regarded as reasonable in our civilisation to-day.

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## PARIS

(FROM OUR OWN CORRESPONDENT)

### EPIDEMIC DISEASES IN FRANCE IN 1937

EVERY year a representative of the Commission de l'Hygiène et des Maladies Contagieuses presents to the Academy of Medicine an account of the behaviour of the infectious diseases throughout France. Reporting on the year 1937, Prof. Tanon expressed pleasant surprise over the absence of serious epidemics of infectious diseases in the south of France as a result of the flow of refugees into it from Spain. This happy achievement must, he thought, be credited not so much to a vaguely benevolent fate as to the disciplined and technical skill of the sanitary authorities. Typhoid fever cropped up here and there, but seems to be on the wane when the country is taken as a whole. Yet it is unsatisfactory that in the campaign against typhoid fever so many different factors come into play, and that the relative importance thereof lacks definition. In some places the main problem seems to be one of food in general and shell-fish in particular. In other places the problem seems largely to be one of drinking-water. Prof. Tanon's reference to vaccination against typhoid fever is so brief that it fails to betray his own attitude towards it. He is much more explicit with regard to his appreciation of the importance of inoculation against diphtheria, and he notes that this disease also showed a decline in 1937 if account is taken of the country as a whole. The same applies to poliomyelitis whose local outbreaks here and there did not prevent a decline in the country's total morbidity from this disease. Prof. Tanon was also able to be reassuring with regard to undulant fever, which is stationary in the country as a whole, and to small-pox and cerebro-spinal fever. The behaviour of scarlet fever and measles has also been such as to warrant no alarm. Nor did influenza distinguish itself in 1937 by anything worse than a few local outbreaks.

### THE CAMUS FAMILY TOUCH

In the Montmarault district, the name Camus is a synonym for a doctor, and it is customary to say of a patient suffering from a fracture or a dislocation that "he must be taken to Camus." In a communication to the medical society of Gannat, Dr. Piquand has traced this saying to the following legend.

Camus the elder, a simple peasant, was digging one day in his garden when he discovered a rusty iron casket which he was unable to open. As it was very heavy, he supposed that it must contain some treasure. At last, with the help of his wife and children, he succeeded in prising open the lid, only to find, enveloped in an old cloth, the fragments of an ivory crucifix. His children, expecting a pile of gold to dazzle their eyes, were so disgusted by what they found that they wanted to throw it aside incontinently. But their father protested, saying that holy things should always be respected. Next day being Sunday, he heated some strong glue and set himself to repair this Christ, piece by piece. He was so patient that, in spite of being an ignorant and rough-handed peasant, he succeeded in remoulding the Christ whose face clearly depicted the emotions of suffering and melancholy. It seemed to him that, when he had finished his work, the eyes of the image before him gazed on him with infinite gentleness and seemed to thank him for what he had done. After placing the restored crucifix carefully in a cupboard, the peasant went to sleep and that night had a vision of the Christ bending over him and saying to him: "My good servant, I have tested your piety and you shall have your reward. As you have taken so much trouble in restoring my image, I grant you the gift of restoring men; henceforth you shall be able to heal broken bones and dislocated joints; and this gift shall not be yours alone, but shall be transmitted to all your descendants. Set to work without fear, and soon you will find the reward of the promise I have made you." Next morning, the peasant's first act was to open his cupboard and look at the Christ. It was unaltered save that the ivory was now intact, the fissures and traces of glue having disappeared. At this sight the old man was moved to tears and he awakened his children to make them worship this miracle. On the same day a neighbour fell from a tree, fracturing a leg. It was so painful that the slightest movement evoked

piercing screams. Moved by an irresistible impulse, Camus rushed to his aid, set the fracture, immobilising it so that the pain ceased as by enchantment. Perfect healing ensued.

Thenceforth all who had fractured or dislocated their limbs sought the aid of the divinely gifted Camus. His son and grandson inherited the same gift, but were shrewd enough to endow it with the worldly respectability of contemporary medicine. After the family had carried on for more than a century in this manner, it died out in the direct line, and with it this remarkable gift of healing.

### THE FRENCH LEAGUE AGAINST RHEUMATISM

The rheumatism conference, which was to have been held on Oct. 8th, and which was put off on account of international uneasiness, was celebrated on Dec. 3rd, the morning meeting being held in the Cochin Hospital. The demonstration of several patients who had been operated on for chronic arthritis was followed by the exhibition of a coloured film showing the various stages of arthroplastic operations. The afternoon meeting, presided over by Prof. Laignel-Lavastine, was devoted to a discussion of gonorrhœal rheumatism. The announcement was made of the appointment of Dr. H. Forestier, founder of the League, as its honorary president.

### THE FIFTIETH ANNIVERSARY OF THE PASTEUR INSTITUTE

On Nov. 14th it was fifty years ago that the Pasteur Institute was inaugurated. The international crisis of last autumn having interfered with the celebration of this anniversary according to schedule, it has now been decided to defer this ceremony till March 15th, 1939, when the President of the French Republic will also be the president of the memorial ceremony.

## UNITED STATES OF AMERICA

(FROM OUR OWN CORRESPONDENT)

### THE OCCURRENCE OF CHANCRE IN SYPHILIS

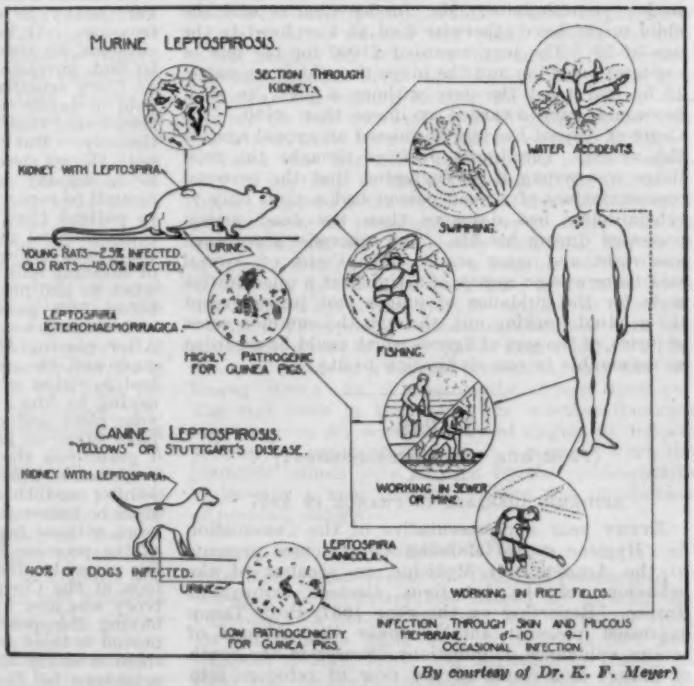
Dr. Walter Clarke, associate director of the American Social Hygiene Association and supervising consultant of the New York City Bureau of Social Hygiene, presented an analysis of 15,090 case records of syphilis. Of these 971, or 6 per cent., had been diagnosed at the chancre stage by the dark-field method. In 45 per cent. of the 15,090 cases the chancre stage had passed unnoticed by the patient. Eight per cent. of male cases were diagnosed in the chancre stage; only 2·3 in the female. The duration of the chancre prior to diagnosis varied from 10 days to 100, with the mode in the 21–31 day period. Only 28 out of 966 chancres came within medical attention from the observation of the patient. The mode for the age of infection was found between the ages 21–30 for white males and females and for coloured males; in the age-group of 16–20 for coloured females.

### LEPTOSPIROSIS

The epidemiology of leptospirosis was discussed by Dr. Karl F. Meyer, director of the Hooper Foundation of San Francisco, at the meeting of the American Public Health Association. He believes that there are more cases of leptospirosis in the country than are at present recognised. In San Francisco 35 per cent. of the rats are infected with *Leptospira hæmorrhagica*, and at least five human cases have been furnished by workers in sewers. Stuttgart's disease or "yellows" of dogs is found to be due to a strain of leptospira (*Lept. canicola*) which is not found in rats but which does occasionally give rise to infection in man. Usually, it is the older dogs which are infected but puppies may carry the infection. Dr. Meyer suggested that routine serum tests might be made for leptospirosis but with the caution that the tests must be interpreted by experienced serologists. In reply to Dr. Carl F. Jordan, he said that the leptospira is a delicate organism and is destroyed by chlorine in the concentrations usually employed in the chlorination of water-supplies. Dr. Meyer pointed out that in London where the diagnostic tools are available four cases of leptospirosis are now recognised each month. His lecture was admirably illustrated by a lantern slide (see Figure).

### RURAL MEDICINE

A conference on rural medicine opened in Cooperstown, New York, on Oct. 7th and was attended by representatives of several of the leading universities, the Commonwealth Fund, the American Medical Association, the Public Health Service, and other




(*By courtesy of Dr. K. F. Meyer*)

Transmission of murine and canine leptospirosis.

interested bodies. The urgent need for post-graduate training of general practitioners was forcibly presented by Prof. John B. Youmans of Vanderbilt University, who finds that half of our rural physicians have no post-graduate training at all. He believes that this is one phase of the practice of medicine in which the Government has a right to take action, and that some 20 per cent. of general practitioners will never engage in post-graduate work unless they are compelled to do so. This estimate met with general agreement but some other speakers did not think it need cause concern. Dr. James D. Bruce of the University of Michigan described the important programme of post-graduate education which has been conducted in that State under the joint auspices of the university and the State medical society. Last year 1957 practitioners took post-graduate work, this being about half of those practising in the State.

On the second day of the conference a statistical survey of the availability of hospital beds in rural communities was presented by Dr. Vane M. Hoge of the U.S. Public Health Service. The survey covered 1340 non-metropolitan counties (43 per cent. of the counties of the country). Of these, 607 had one or more general hospitals; 733 had none. In the study area 1·6 beds were available per 1000 persons, and the average occupancy of beds was only 53 per cent., although two statistical studies have indicated that the desirable proportion is 4·5 beds per 1000. In the United States as a whole, however, 67 hospital admissions are made per 1000 population per annum, whereas the rate is only about half this for the study area. No general statistical study can determine whether a community needs a new or enlarged or improved hospital. The time required for a patient to reach a hospital is a better indication than distance. A hospital is not only an institution for housing of the sick; it must provide facilities that the general practitioner does not possess and also provide for mutual coöperation between doctors. More than one speaker recognised the inevitability of federal subsidy for the improvement of hospitalisation.

# GRAINS AND SCRUPLES

*Under this heading appear week by week the unfettered thoughts of doctors in various occupations. Each contributor is responsible for the section for a month; his name can be seen later in the half-yearly index*

## FROM AN ANATOMIST

### V

It may be that it is the result of delving into the literature of modern psycho-pathology, or perhaps it is due to recent world happenings: but from one cause or another I have begun to think afresh upon the origin of man. I have begun to wonder if there is a possibility that I have done him less than justice in regarding him merely as an infantile mammal. Suppose our present ideas as to the origin of man were all wrong, could we maintain, with any authority from accepted science, that an alternative route were possible? Clarence Day, Jr., in his "This Simian World" has pictured with much wit and wisdom the condition of affairs that would have resulted if the cats and not the monkeys had produced the creature responsible for what we call civilisation. His is not a book to paraphrase, for it must be read in its whole brilliant continuity: but we can picture with him the dignified, luxurious civilisation that would have resulted from the supremacy of some feline stock. The simian restlessness would vanish; the stupid mimicry, the vulgarity, the general apishness of society would be replaced by calm and dignified and luxurious individuality. This is an attractive thesis and one that has been presented with great literary skill: but it is one that could not be sustained on scientific grounds. It can only be regarded as a fantasy, for we know very well that there is no hint of feline dignity about our civilisation and that man is certainly not derived from any feline stock. But it has occurred to me that an alternative route for human origins might be possible and here, under the immunity guaranteed to a writer of Grains and Scruples, I shall put it forward in proper scientific form. Moreover, I shall be careful to authenticate all my statements by reference to accepted authorities and make a point of verifying all my references. What follows may, therefore, be regarded as a thesis, defended in a manner acceptable to modern scientific methods, and this despite the conclusions to which it may lead us.

In attempting to unravel the phylogenetic story of any animal, it is essential that a considerable degree of reliance should be placed upon findings derived from a study of the teeth. By reason of their relative indestructibility during long geological periods, teeth may be almost the only relics of bygone ancestral forms of whose presence we should otherwise be ignorant.

The peculiarities of the human dentition are well known and it has been made abundantly clear, from the researches of Gregory (1916) and others, that our present dentition has resulted from the reduction of a formerly larger series of teeth. There is, indeed, a basal mammalian formula, which it is generally agreed, consists in 3 incisors, 1 canine, 4 premolars, and 3 molars upon each side of each jaw. From this basal mammalian dentition the characteristic teeth of all the mammals have been derived by reduction and specialisation. This ideal formula is found among living species in the members of only four genera belonging to two orders of mammals. Three of these genera (gymnura, talpa, and myogale) are small and, in some directions, highly specialised insectivora impossible to conceive as human ancestors; the fourth genus is that of those very generalised animals the suidæ or pigs. This is a somewhat astonishing finding: but far more astonishing is the fact that beyond even this strange fact of generalisation, we find a closer parallel in specialisation. The human premolar teeth possess either two roots or only one. In all the monkeys and apes these same teeth possess three roots, arranged in a peculiar manner, which appears very definitely to preclude the development of the characteristic human type. In the members of the suidæ, the rooting of the premolars is as in man (Flower and Lydekker 1891). This is a finding that cannot possibly be ignored. It seems obvious that it is to some primitive member of the suidæ that we must turn for the ancestral form of the human dentition.

This hint, derived from a study of the dentition, seems to gain some added support when we remember the figure in the great "De humani corporis fabrica" of Vesalius, which depicts the dissecting table and the instruments used by the great master of human anatomy. For, as all admirers of that great work will

recall, the table bears not a human cadaver but the body of a pig prepared for dissection. Possibly some glimpse of the truth had been revealed to Vesalius and indeed it is well known that in the whole of its visceral anatomy the pig is so thoroughly human that the earlier human anatomists were always wont to obtain their knowledge from the dissection of pigs and, even at the present day, the pig is used in advanced schools of operative surgery as an apt substitute for human material.

* * *

Numerous papers have been written to show that man is descended from a mammalian ancestor possessing a full complement of mammary glands and nipples. We know that the so-called mammary ridge extends from the region of the axilla to the groin and that in man supernumerary mammary glands or nipples are occasionally present. It is a remarkable fact that every case of accessory nipple recorded in man recapitulates a phase of mammary development normal in the pig. But generalisations may not be pressed too far, and since it is possible that in many modern works of human ancestry they have been considerably over-estimated, I shall refrain from employing more of them. It is when we come to deal with definite human peculiarities that the evidence becomes most convincing. Twenty years ago Pocock (1918) pointed out that one of the most noteworthy of the external characters of man was the fact that his nostrils were completely ringed round at their margins. In most mammals, as for instance in the dog, there is a slit in the narial margin, which lies on the lateral side of the narial orifice and marks the line of closure of the lateral nasal and maxillary processes of the early embryo. In man this slit is absent, although in all the lemurs it is present in its primitive condition. Pocock therefore gave the name "haplorhini" to man and his kin in distinction to the common slit-nosed mammals termed "strepsirhini." When we come to look among the lower animals to match this completely ringed condition of the nostrils, it is again in the pig that we find it fully developed. The complete nostrils of the pig are familiar to everyone. One of the most remarkable of human distinctions is the possession of that apparently trivial appendage in the throat that goes by the name of uvula. The uvula is one of those organs of uncertain or undeterminate function that, as a consequence of its apparent lack of utility, is all the more important as a phylogenetic landmark. An organ that subserves a definite function may always be developed by the action of parallel or convergent evolution: but an organ the function of which is at a low ebb is, for this very reason, more to be relied on as a criterion of genetic affinity. It is an old observation that the uvula is not a common mammalian possession, and that it is absent in the orang-utan (Sonntag 1924) and trivial in its development in all other apes and monkeys. It is in the pig again that we meet with a uvula developed in human fashion (see Ellenberger and Baum 1906). This is surely a finding that cannot be ignored in questions of phylogenetic affinities. Even descending to the most apparently inconsiderable details, the same remarkable findings hold true. With regard to the "tarsal plate" of the human eyelid, Picou (1912) observes "Zeis, en 1835, emet une hypothèse voisine de celle de Haller, en faisant remarquer que les tarses constituent une particularité propre, pour ainsi dire, à l'espèce humaine, n'ayant eu l'occasion de les observer chez les mammifères qu'à l'étât presque d'exception (porc)." Here is an intimate detail, so apparently trivial and therefore of such paramount importance as manifesting itself a derivative of heritage and not of habitus, that it cannot possibly be ignored. That Zeis and Haller after postulating that the tarsal plate was a human peculiarity should have ultimately found it to be present in the pig alone in the mammalian series is a fact of the utmost phylogenetic importance.

These special anatomical resemblances could be multiplied almost indefinitely, but with the limits open to me it is hardly necessary to do so, for the more philosophic questions of human characteristics demand attention. All philosophers have recognised that among the special attributes of man there are the following peculiarities: he is comparatively hairless and his caudal appendage is reduced; he is almost universally distributed both laterally and vertically throughout the globe; he occurs naturally both as a white and as a black variety and these varieties are capable of crossing. These conditions are fulfilled by the pig alone throughout the whole range of the mammals. The comparative hairlessness of the pig is proverbial, and, considered as a mammal, his tail is far gone in reduction. The pig, in one form or another, is an ancient inhabitant of every continent, it lives at an elevation of 8000 feet on the Paramos (Darwin 1868a) and in valleys at sea level. The black pig and the white pig are familiar to everyone; even the red or yellow variety is a commonplace.

* * *

One other physical character of man that is acclaimed among his most lofty attributes is the fact that he is a two-legged animal and even this, his crowning glory, has its inception in his lowly mammalian ancestor. Colonel Hallam (1833) has described "a race of two-legged pigs," and this peculiarity was transmitted through three generations—a fact commented on by Darwin (1868b). It would seem that we need little more in the way of anatomical facts to make the thesis acceptable as a scientific verity. These facts will doubtless be forthcoming from the researches of future workers in the field and especially I look forward to the investigations into the psychology of pigs, since the educated pig was at one time a regular exhibit in side-shows at country fairs. Indeed, I believe that future workers may possibly demonstrate that there is much similarity between suine and human psychology.

It is possible, however, that a fallacy may lurk somewhere in this thesis and that readers of THE LANCET may detect it; but the fallacy, if there be one, seems to me to obtrude no more ostentatiously than is common in theories of human descent.

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*** *This concludes the five articles from An Anatomist. During January, A Physiologist in America will be responsible for these columns.*—ED. L.

# CORRESPONDENCE

## THE CURRICULUM

*To the Editor of* THE LANCET

SIR,—The fact that some of my remarks at our yeomanry dinner warranted an annotation in your number for Nov. 26th emboldens me to develop the idea contained in them. Where'er one goes one finds destructive criticism of the medical curriculum, combined with the grumble that "they"—i.e., everyone except the speaker—ought to do something about it; but, of constructive criticism, only the request that some further subject should be added to it. To this one answers that the curriculum is so overcrowded that it will admit of no further incorporation of any subject that will take even five minutes of time. I believe that every teacher will agree with this and that the majority will agree that the curriculum is so overloaded that the student has no time to think, to sort out his knowledge, or to fit the pieces together into a coherent whole. We need to rearrange the curriculum to allow of thought by the student, and for this it must be considerably lightened of what is already in it.

In the opinion of many the curriculum must not be extended beyond five years. The cost of medical education is already higher than it should be. This tends to limit the entry to the ranks of the wealthy and the well-to-do. It is not a healthy tendency. We want the doctor to be in sympathy with his patients; not merely the kindness of heart that all have for those in trouble, but the feeling with them that comes from having led a life not far removed from theirs. It is probable that 80 per cent. of all the population come within the limits of income of the National Health Insurance Acts. Four-fifths therefore of all our doctoring is done for people to whom the shilling in the weekly budget is important. The doctor who has never wondered whether he will find that extra shilling may make a great physician but he is less likely to make a sympathetic panel practitioner than those who have been through that experience.

There are those that disagree with this. They want the standard of the general education and of culture in the profession to be raised, and they seem to think that those who have paid directly for their education are necessarily of a higher standard in these matters than those who have taken advantage of the education for which they pay indirectly. There is however no reason to suppose that this assumption is correct. There are others who would extend the curriculum to seven years and would have the State pay the student during a part or the whole of this time, with a view to all coming into its service after qualification. They forget that even if the nation would agree to such a thing you cannot teach judgment and responsibility until the student has become the qualified doctor.

Let us now consider what is the type that we should turn out at the end of the five years. For a century the curriculum has been developing with the view to turning out a ready-made general practitioner. Not only is it impossible to do this to-day but also it is inadvisable. In the old days boys were apprenticed to apothecaries and having learnt a lot about patients by living with them came up and "walked" the hospitals to learn about their bodies and their diseases. They applied this knowledge to the sick human beings with whom they had already been in contact. With the development of the medical curriculum the apprenticeship system disappeared, and we who have studied during this century have learnt first all about the insides of the human frame and then about the various diseases in that body. Gorged with this knowledge we have been introduced in a hesitating manner to the human being who believes himself to be ill. Our parents and grandparents knew the sick child and then applied their knowledge of physiology and pathology to it. We knew all about anatomy and other sciences before we saw a patient, and we applied the patient to this knowledge. It required a great change to switch over from this and to treat an individual suffering from a symptom which made him think he was not a normal human being. To-day this change of approach is greater, far. The student knows so much more about the organs and their diseases, and the time he gives to these takes him still more away from the patient. Try as we teachers do to get him in touch with human beings, we cannot do it enough; and it is not until the end of his clinical period that he is even beginning to make that mental switch that modern medical education asks him to do if he is to be a good doctor. We cannot to-day turn out the ready-made G.P. for which the medical curriculum was devised.

And even if we could we should not. Half a century ago general practice absorbed the vast majority of all who qualified; now it is doubtful whether it takes more than half of them. It is impossible to get exact figures on this point, but some years ago the clerk to the London Insurance Committee, using such data as were available, made this estimate. We want to change the aim of an education that is directed to the life's work of only one in two of our students.

What then is the product that we should try to turn out at the end of five years' study? I doubt whether I should have mastered my innate laziness sufficiently to enunciate this problem had not "Anatomist"—who can no more hide his identity than could Dr. Johnson—given a brilliant demonstration of its solution in this week's Grains and Scruples. We want to turn out an immature man capable of developing, by further study, into any branch of medical activity. I would not compare him with an ostrich or a shark, for both these words bear connotations that should be inapplicable to our profession. Nor would I wish him to endure fire unharmed as did the salamander. Let us then compare him to the tuatara, a being that few of us have seen, that was in harmony even with a petrel and which by staying small has retained its elasticity and its power to develop in any direction.

Once there are accepted as postulates the two contentions that the medical curriculum needs lightening and that its time must not be lengthened, one realises that "something must be done." If one then begins to think one further realises that the present aim is wrong. For the moment I will leave it at that; but if anyone will go on thinking from this point he will find all sorts of new ideas arising in his mind and possibly a solution of this problem will be found to the benefit of the profession and of humanity.

I am, Sir, yours faithfully,

T. B. LAYTON.

Society of Apothecaries of London,
Water-lane, E.C.,
Dec. 21st.

## A NEW REMEDY FOR EPILEPSY?

*To the Editor of* THE LANCET

SIR,—Your issue of Nov. 5th contains a communication from Bernard Schlesinger which, if uncorrected, may work grave injury to patients. Dr. Schlesinger stated that since the new anticonvulsant drug, Dilantin, is "a close derivative" of Nirvanol, and since the latter has proved to be without value in epilepsy and highly toxic, the use of dilantin for epilepsy is fraught with danger. Presumably, Dr. Schlesinger did not have access to the articles in which Merritt and Putnam describe their experimental and clinical observations.

Nirvanol and dilantin are different, and, if the physician fails to realise this, he may, on the one hand, prescribe the toxic drug, nirvanol, when he intends to prescribe dilantin, or, on the other hand, he may fail to give his patients the benefit of a trial of dilantin for fear of its supposed toxicity. Nirvanol is phenylethylhydantoin; dilantin is sodium diphenylhydantoinate. The pharmacological action of the two, as well as their structural formula, is not the same. In the course of their search for drugs effective in controlling the seizures of epilepsy, Merritt and Putnam investigated more than 100, including several derivatives of hydantoin. They likewise have found nirvanol (phenylethylhydantoin) both ineffective and very toxic. The other hydantoinates which were tested were ineffective. On the other hand, they found dilantin (the sodium salt of diphenylhydantoin) more effective than Luminal as an anticonvulsant, and in proper dosage it had little sedative or toxic effect. The drug has been subjected to rigorous toxicological and pharmacological tests on animals.

Merritt and Putnam have treated 250 epileptics, some for nearly two years. They have pointed out the unpleasant symptoms which patients may experience—instability of gait, gastric irritation, or skin rashes—but have never encountered serious results. Unfortunately, the drug does not help all patients, and may temporarily make petit mal worse. Many physicians who are now using the drug agree with Merritt and Putnam that in proper dosage sodium diphenylhydantoinate is without serious sedative or toxic action, and for the majority of patients with epilepsy it is the drug of choice.

I am, Sir, yours faithfully,

WM. G. LENNOX.

Harvard Medical School, Boston, Mass., U.S.A., Dec. 15th.

## MULTIPLE ANÆSTHESIA

*To the Editor of* THE LANCET

SIR,—Your annotation of Dec. 17th calls for comment.

All anæsthetics, apart from nitrous oxide with its limited scope, have undesirable side-effects. These usually differ in the various agents, and are negligible after small doses. The "anæsthetic cocktails," including the familiar chloroform-ether and A.C.E. mixtures, are directed towards producing the desired result while minimising the side-effects. Avertin and chloroform are not used together because it is believed that the side-effects—in this case toxic—are the same for the two drugs, and their result would be additive. In the absence of an ideal anæsthetic, each patient needs a carefully balanced prescription, varied in one or other direction with the side-effect it is most desired to avoid. The use of the "rag and bottle," except in cases of emergency, is as unjustifiable as is the use by some practitioners of two or three stock mixtures, with which they treat all ills. Bürgi's hypothesis is no longer accepted,[1] but Gwathmey's synergistic mixtures were more easily defensible than the use of cruder methods by his critics; they showed, at least, a wholesome dissatisfaction with anæsthesia as he found it.

It seems necessary to defend in greater detail the prescription discussed by Dr. Broad and myself in your issue of Nov. 19th. You criticise the use (which we have not met) of morphine "merely to counteract the restlessness likely to follow the administration of the barbiturates." Surely a better illustration of your point would be afforded by the universally accepted use of atropine merely to counteract the evil effects likely to follow the administration of ether, or of ephedrine merely to counteract the fall in blood pressure with spinal anæsthesia.

Dr. Lerman accuses us of polypharmacy. It should not be necessary to point out that our prescription differs from the more orthodox varieties only in the substitution of Pentothal for ether. For side-effects the barbiturates, especially Evipan and pentothal, compare favourably with ether or chloroform, but the main justification for their use lies in the results. These side-effects are fully described elsewhere.[2] Dr. Lerman appears unable to distinguish between the probable result of having to eliminate a full anæsthetic dose of all the individual ingredients, and that of eliminating the quantities they actually receive. At least, our patients bear up remarkably well under the "strain upon their eliminating apparatus."

The criticism that an intravenous anæsthetic is irrecoverable has not been applicable to evipan or pentothal since the "single dose" technique was discarded. With a competent anæsthetist the patient is never more deeply anæsthetised than is required from time to time by the operative stimuli; in fact, additions have to be made at frequent intervals to replace the continuous leakage due to detoxication. It might be pointed out that an inhalation anæsthetic is recoverable only while the patient is breathing (when urgent elimination is presumably not necessary). Pentothal is eliminated continuously while the patient is alive (which happy state can, in case of necessity, be prolonged indefinitely by artificial respiration), and the impatient anæsthetist has always Coramine or Cardiazol to accelerate matters.[3]

I am, Sir, yours faithfully,

GEOFFREY ORGANE.

Westminster Hospital, S.W., Dec. 24th.

## TREATMENT OF BRONCHO-PNEUMONIA IN INFANTS WITH M. & B. 693

*To the Editor of* THE LANCET

SIR,—I have recently treated two infants, aged three and four months, with the product known as M. & B. 693, and feel that a few notes may be of interest.

*Dosage.*—One half-gramme tablet was crushed and suspended in 20 drachms of milk, and one drachm of the suspension was given every two hours. At the end of each day any remaining emulsion was thrown away to avoid trouble from sour milk.

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[1] Shackell, L. F., and Blumenthal, R. R., *Anesth. & Analges.* 1933, **12**, 102.

[2] Widenhorn, H. L., Volini, I. F., and McLaughlin, R. F., *Ibid*, 1938, **17**, 93; Bourne, W., Bruger, M., and Dreyer, N. B., *Surg. Gynec. Obstet.* 1930, **51**, 356, and *Canad. med. Ass. J.* 1931, **24**, 384; Bourne, Bruger, and Raginsky, B. B., *Amer. J. Surg.* 1931, **14**, 653; Rosenthal, S. M., and Bourne, W., *J. Amer. med. Ass.* 1928, **90**, 377; Bourne, W., *Brit. med. J.* 1932, **2**, 319 and 706.

[3] Barlow, O. W., *J. Pharmacol.* 1935, **54**, 1; Maloney, A. H., *Amer. J. Surg.* 1936, **34**, 571; Burstein, C. L., and Rovenstine, E. A., *Anesth. & Analges.* 1937, **16**, 151; Blackwenn, W. J., Masten, M. G., and Tatum, A. L., *J. Pharmacol.* 1937, **60**, 299.

*Management.*—A steam tent was used. A simple saline mixture and brandy and glucose were employed in addition.

*Results.*—The physical signs cleared up in both cases in five days.

*Special note.*—Both babies developed enteritis—one on the eighth day, the other on the sixth. In each case the drug was stopped and in a day the enteritis ceased.

I would like to emphasise that good results were obtained in tiny babies with much smaller doses than are commonly used, and to point out the development of enteritis after about a week on the drug.

I have had similar good results in primary bronchopneumonia in older children, and in secondary bronchopneumonia arising in the course of whooping-cough, where the response was dramatic. M. & B. 693 also gave good results in tonsillitis accompanied by herpes simplex—so-called influenzal tonsillitis.

I would record my appreciation of the collaboration of the nursing staff at St. Anthony's Hospital, Cheam, where I had charge of these pneumonias, and my thanks to Dr. William O'Neill for permission to publish these notes.

I am, Sir, yours faithfully,

Carshalton, Dec. 21st. C. GRANT NICOL.

## THE "IRON LUNG"

*To the Editor of* THE LANCET

SIR,—In your issue of Dec. 17th Dr. G. P. Crowden raises criticisms of the use of wood for the "iron lungs" which Lord Nuffield is so generously to manufacture and present to British hospitals. He quotes a paragraph from the *American Journal of Pediatrics* which states that:—

"Such respirators made with the best cabinet-quality wood and by skilled cabinet workers have checked and cracked in an annoyingly short time. Such failure is probably caused by the rapid pressure changes and dampness within the respirator. It is, therefore, risky to use such a machine, put it in storage in the basement and then expect it to be in working condition when the emergency arises. Theoretically, the wooden machines should last a long time. Practically, this has not proved to be the case."

I would like to point out that with modern methods of manufacture of laminated wood (of which the Both-Nuffield "lung" is constructed) past difficulties of warping, twisting, and cracking have been eliminated. The new "wooden lung" is built of a series of strips of timber glued with waterproof glue and covered with two sheets of veneer on both sides—in other words building up what is commonly called a block board. This method of construction is noted for its lack of movement, as a result of which it is very largely used for aeroplane construction.

I have inspected at the London County Hall one of the "lungs" which the London County Council medical staff played a big part in designing. The experts there are of the opinion that in view of the methods of construction, and the material used, the "wooden lungs" will last for a period of forty, fifty, or more years. Since my inspection, which was a very thorough one, I feel it is only right to point out that, in my opinion, this method of construction and the employment of timber, will not give rise to the difficulties which Dr. Crowden suggests.

Many people think of plywood as something out of which tea boxes are made, but the modern laminated board is quite a different thing. The L.C.C. have for the past three or four years been using ward cabinets, made of laminated timber, which are subjected to very severe treatment. They are usually standing against radiators and are frequently scrubbed with soap and water. Yet the L.C.C. experts have found that in their experience there has been no movement in any of these cabinets, and I see no reason why the laminated "wooden lungs" should not stand up to their work, without deterioration, for many years.

I am, Sir, yours faithfully,

E. H. B. BOULTON,
Technical Director, Timber Development Association Ltd.

King William-street, E.C., Dec. 22nd.

## THE REFUGEES

### A DESERVING GROUP

*To the Editor of* THE LANCET

SIR,—May we appeal through your columns for assistance to certain colleagues of ours who are in serious straits?

Appeals of this description are to-day unfortunately all too common; but we have as a group a very justifiable reason for presenting this particular case. Each of us has for a period given his medical services to the Spanish Government either on behalf of the civilian population or in the medical units dispatched from this country. Now that all medical men of non-Spanish origin are leaving the Government service, a number of our colleagues, who are by nationality German or Austrian have been transferred to French territory; and here their financial position, until arrangements can be made for their final destination, is desperate. Most of them are known personally to one or other of us. Like us they were moved by the consideration that it is better for the world that Spain should retain its independence than fall under the control of foreign totalitarian governments. They cannot return to their homes. Should any of your readers care to assist men and women whose misfortune it is to find themselves destitute on account of their generosity and courage, funds can be immediately transmitted to the medical organisation in Paris that si concerning itself with their welfare.

Donations may be sent to Dr. C. F. Hill, 162, Kingston-road, London, S.W.19.

We are, Sir, yours faithfully,

A. L. COCHRANE, C. F. HILL,
L. CROME, DOUGLAS JOLLY,
Dec. 23rd. A. T. HART, R. S. SAXTON.

## INFECTIOUS DISEASE

### IN ENGLAND AND WALES DURING THE WEEK ENDED DEC. 17TH, 1938

*Notifications.*—The following cases of infectious disease were notified during the week: Small-pox, 0; scarlet fever, 1849; diphtheria, 1467; enteric fever, 28 (26 "expected"), pneumonia (primary or influenzal), 948; puerperal pyrexia, 154; cerebrospinal fever, 21; acute poliomyelitis, 31; acute polio-encephalitis, 1; encephalitis lethargica, 1; dysentery, 36; ophthalmia neonatorum, 94. No case of cholera, plague, or typhus fever was notified during the week.

The combined notifications of acute poliomyelitis and acute polio-encephalitis total as follows for the current week and the previous 21 weeks (working backwards): 32, 30, 37, 42, 47, 53, 73, 74, 88, 85, 68, 56, 63, 83, 76, 82, 76, 83, 87, 63, 41, 29.

The number of cases in the Infectious Hospitals of the London County Council on Dec. 23rd was 3204, which included: Scarlet fever, 673; diphtheria, 1099 (carriers, 40); measles, 11; whooping-cough, 526; puerperal fever, 9 mothers (plus 3 babies); encephalitis lethargica, 296; poliomyelitis, 8. At St. Margaret's Hospital there were 30 babies (plus 16 mothers) with ophthalmia neonatorum.

*Deaths.*—In 126 great towns, including London, there was no death from small-pox, 2 (2) from enteric fever, 2 (0) from measles, 1 (1) from scarlet fever,

(*Continued at foot of next page*)

# PUBLIC HEALTH

## An Outbreak of Dysentery at Middlesbrough

THE small outbreak of dysentery in a housing estate at Middlesbrough last month began with the notification of five children to the health department on Nov. 15th as cases of ? food poisoning. The children were all members of the H family: V aged 8 years, H aged 6 years, J aged 4 years, K aged 2 years, and G aged 1 year. They were seen by the medical officer of health and removed to the isolation hospital with a diagnosis of ? food poisoning, ? dysentery. The illness had started on the 12th and by the 14th had affected all the children, the father and mother being apparently well. All the children showed some signs of malnutrition, as they had suffered from measles, chicken-pox, and whooping-cough within the previous three months. J died within five hours of admission. Her post-mortem examination revealed little beyond an early pneumonia.

On the 16th two members of the R family living next door to the H family were attacked with the same symptoms. J aged 6 years and M aged 1½ years were removed to hospital on the 16th and 17th respectively with vomiting and diarrhœa with blood and mucus. Contact between the R family and the H family was established, in that the children had been playing together and had eaten "sweets" together on the night of Nov. 12th.

On the 24th a neighbour, aged 31, who had nursed one of the H children during the night of Nov. 13th, was removed to hospital with similar symptoms. There have been no further cases. M.R. died on Dec. 9th; the other cases are still in hospital but progressing favourably.

Inquiry into the food consumed by the H family showed that on Nov. 12th they had eaten fish purchased locally and fried at home and their Sunday dinner on the 13th had consisted of stewed rabbit, potatoes, brussels sprouts, and Yorkshire pudding. At this meal K had only eaten Yorkshire pudding and G had had nothing at all. Bacteriological and chemical examinations of milk, food, and water were negative. The cases were diagnosed as dysentery on clinical grounds and also from the fact that all the surviving cases have shown the Flexner-Y bacillus in their fæces. All cases gave a positive blood agglutination with a rising titre for the Flexner-Y bacillus.

The outbreak was undoubtedly due to a carrier. Investigation has shown that the father of the H children spent some time this summer at a training centre from which a certain number of cases of suspected food poisoning were removed. Blood examination in his case also gave a positive agglutination of 1 in 250 for the Flexner-Y bacillus, but his stool report was negative. Although the chain of evidence is not indisputable, this man seems to have been the probable source of infection.

(*Continued from previous page*)

7 (2) from whooping-cough, 23 (3) from diphtheria, 43 (10) from diarrhœa and enteritis under two years, and 36 (4) from influenza. The figures in parentheses are those for London itself.

Stockton-on-Tees and Sunderland reported the only deaths from measles. Fatal cases of diphtheria were scattered over 18 great towns, 3 each at Liverpool and Stanley U.D. (Durham). Birmingham reported 9 deaths from diarrhœa.

The number of stillbirths notified during the week was 234 (corresponding to a rate of 36 per 1000 total births), including 23 in London.

## Registration of Stillbirths in Scotland

To have an account of stillbirths is clearly valuable both as a safeguard for the protection of infant life and for the help it may give in elucidating the causes of antenatal and postnatal mortality. In England and Wales this defect was remedied by the Births and Deaths Registration Act of 1926 under which registration of stillbirths was required from July 1st, 1927, thus bringing our system into line with what had long been the rule in a number of other countries. This law, however, did not extend to Scotland and it has been necessary to pass a new Act—the Registration of Still-births (Scotland) Act, 1938—requiring registration from Jan. 1st, 1939. The Act imposes a duty of certification on the medical practitioner who attends at a stillbirth or who examines the body of a stillborn child, and where possible the cause or probable cause of death must be given. In the latter respect the Scottish requirements go beyond the English in which only the statement that the child was not born alive is demanded. If no registered medical practitioner or certified midwife was present at the birth or examined the body after birth, then the informant must make a declaration to that effect and that the child was not born alive.

In making comparisons between the stillbirth-rates and infant mortality-rates of one country and another the definition of a stillbirth is of paramount importance. The Scottish definition is precisely the same as that adopted in England and Wales twelve years ago—namely, "stillborn and stillbirth shall apply to any child which has issued forth from its mother after the twenty-eighth week of pregnancy and which did not at any time after being completely expelled from its mother breathe or show any other signs of life." Every birth therefore falls into one of three classes:

(1) A birth before the end of the 28th week of pregnancy of a child which did not show signs of life after complete expulsion is not required to be registered.

(2) A birth after the 28th week of pregnancy of a child which after complete expulsion did not show any signs of life is a stillbirth and must now be registered as such.

(3) A child who shows any signs of life after complete expulsion, whatever the duration of pregnancy, is a live-born child and if it dies, after however brief a period, must be registered both as a live birth and a death.

The giving of a certificate of stillbirth to the relative does not, of course, relieve the medical attendant or certified midwife from notifying the fact to the medical officer of health of the area (under the Notification of Births Act, 1907).

In England and Wales the number of stillbirths per 1000 total births is about 40 and has varied very little in the last ten years. It falls more heavily on males than females and on the illegitimate than the legitimate. There is little difference between urban and rural areas but considerable local variations are apparent. For instance, in 1936 the rate per 1000 total births was 54 in Wales, 45 in the northern counties, and only 32 in Greater London; the metropolitan boroughs varied in the same year from 25 in Fulham to 46 in Hampstead and the county boroughs from 24 in Oxford to 64 in Halifax and 63 in Merthyr Tydfil. It will be interesting to see how far the Scottish figures, with their addition of the probable cause of death, compare with these and help to explain the wide variations in the incidence of prenatal deaths.

# OBITUARY

## HARRY FINLEY, M.D. Lond.

Dr. Finley of West Malvern died on Dec. 12th at the age of 70. The son of the late Henry Thomas Edward Finley of Wimborne Minster, Dorset, he was born at Wimborne Minster and was educated at the local grammar school. Thence he went to University College, London, and he graduated from University College Hospital in 1892. After holding residential posts both there and at the Cumberland Infirmary, Carlisle, he spent some years in temporary appointments in various parts of the country, ranging from Devonshire to Midlothian, and gained a wide and varied experience in general practice before settling in West Malvern in 1899. For many years he was a valued member of the staff of the Malvern Hospital, and he was also associated with the Malvern Dispensary, St. Edward's Orphanage, and the convalescent homes of the Birmingham Hospital Saturday Holiday Fund. During the late war he acted as medical officer at a V.A.D. hospital in the town.

Dr. Finley was an original member of the Malvern Medical Society, and was its president for the last six years of his life. His opinion was valued both in practice and in consultation, and he kept in touch with a wide circle of professional colleagues. He leaves a widow, a son, and two daughters.

## FREDERICK CHARLES SPRAWSON, M.B. Lond., F.R.C.S.

THE death of Mr. F. C. Sprawson on Nov. 11th was an occasion of deep personal sorrow to his many friends in Blackpool, where he practised for more than thirty years.

Born in 1872, he was the eldest of four brothers, all of whom entered the medical profession. After a distinguished career at King's College, London, he passed his F.R.C.S. examination at the early age of 24. During his student days at King's College Hospital he had the good fortune to serve as dresser to Lister, and was probably the last to occupy that position. He was later house surgeon to William Rose, and came intimately in contact with that great teacher Albert Carless, who at that time was collaborating with Rose in the production of "Rose and Carless." Sprawson was responsible for the photographic illustrations in the first edition. Much attracted by the teaching and personality of McHardy, the ophthalmic surgeon, he threw himself with enthusiasm into eye work and took appointments at the special hospitals to gain experience in that branch.

Shortly after his marriage in 1897 Sprawson settled in Blackpool, and continued in practice there until his retirement in 1931. He developed an extensive consulting ophthalmic and general surgical practice, which made heavy demands on his endurance and undoubtedly forced his early retirement. He was consulting surgeon to the Lytham and Fleetwood Hospitals, and served on the staff of the Victoria Hospital, Blackpool, for many years. He volunteered for service in the late war, and on the way out to Salonika his ship, the *Ivernia* was torpedoed in the Mediterranean. He narrowly escaped death by drowning, yet his chief concern was the loss of his surgical instruments, which were for some time irreplaceable.

Few men have been so beloved and respected by their colleagues as was Sprawson, and his advice was eagerly sought in all sorts of cases. Of a quiet and retiring disposition, he always shunned the limelight; yet to meet him in consultation was a revelation of a mind stored with medical knowledge and general culture. On his retirement in 1931 he received a presentation from his fellow practitioners as a token of their esteem, and was their guest at a dinner given in his honour. His interests outside his professional work were many and should have obtained for him a happy retirement, but unluckily increasing disability curtailed his activities in his last few years. He was a keen reader, a skilful fly-fisher, and an expert carpenter. He delighted in boats and the keeping of bees, and for all his hobbies he acquired the last word in scientific knowledge.

## PETER SIDNEY SPOKES, M.R.C.S., L.D.S.

Dr. P. S. Spokes, who died at Lewes on Dec. 18th in his 86th year, was in his time one of the pillars of the dental profession. Born at Reading in 1852, eldest son of Sir Peter Spokes, he was educated at Amersham Hall and University College, London, where he qualified M.R.C.S. in 1876. After spending some time as surgeon to troops in the Transvaal he returned to London and took his dental diploma, becoming dental surgeon to University College Hospital in 1892. He lectured there and at the National Dental College, to which he became dean; and among other activities he was dental surgeon to Haileybury and president of the School Dentists Society. Although he wrote no text-book the dental journals often contained something useful and stimulating from his pen and he contributed the articles on treatment of teeth and oral sepsis to Pye's "Surgical Handicraft." After his retirement in 1922 he lived in the house occupied by Gideon Mantell, F.R.S., surgeon and geologist, and published a biography of him in 1927. He was himself an active member of the Sussex Archæological Society. Dr. Spokes married Agnes Anderson of Steeple Claydon who died in 1907, and had one son.

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FELLOWSHIP OF MEDICINE AND POST-GRADUATE MEDICAL ASSOCIATION. — The following post-graduate courses will be held during the early part of 1939: afternoon course in dermatology at St. John's Hospital (Jan. 3rd to 31st, open to non-members); a series of lecture-demonstrations in neuro-surgery at 8 P.M. at the West End Hospital for Nervous Diseases (Mondays and Fridays, Jan. 2nd to 20th); an all-day course in cardiology at the National Hospital for Diseases of the Heart (Jan. 9th to 20th, open to non-members); an all-day course in urology at St. Peter's Hospital (Jan. 16th to 28th, men only); and an all-day course in chest diseases at the Brompton Hospital (Jan. 23rd to 28th). A week-end course on heart an dlung diseases will be given at the London Chest Hospital on Feb. 4th and 5th. Further information may be had from the secretary of the fellowship, 1, Wimpole-street, London, W.1.

# A YEAR'S WORK ON CANCER

THE Imperial Cancer Research Fund moved in July from Queen-square to Mill Hill, and the reorganisation thus required has necessarily interfered with the scientific work of the staff. Nevertheless the director, Dr. W. E. Gye, is able again to present a valuable report[1] describing original investigations and showing how this laboratory confirms, integrates, and collaborates in observations made elsewhere.

The section on carcinogenesis opens with a renewed warning about the dangers of using Thorotrast (colloidal thorium dioxide) for radiography. It has repeatedly been pointed out that this substance remains in the body indefinitely, and Dr. L. Foulds has now produced both sarcomas and a carcinoma at the site of its injection into guinea-pigs. These growths appeared 2½–3 years after the thorotrast was injected, and in man "a period of ten or fifteen years might be expected to elapse before thorotrast produced a tumour." Though no cancers have yet been traced to its use in human beings it would be premature to assume that thorotrast is harmless, especially as bone tumours are seen in workers who handle luminous paints.

Commonly tar and the carcinogenic hydrocarbons evoke either squamous epithelioma (when applied to the skin) or sarcoma (when injected beneath it). The carcinoma induced in a guinea-pig by Dr. Foulds is apparently the first example of a glandular cancer produced by the *local* action of a carcinogenic agent. Some investigators have argued that carcinogenic agents cannot induce glandular cancer in animals not predisposed to it; but in Dr. Gye's opinion it would be rash to conclude that an extraneous stimulus is not decisive in the origin of glandular cancer; though "the appropriate stimulus is not necessarily that which induces skin cancer, just as the most effective stimulus is not the same in different species of animals. The search for the stimulus which induces the large and dangerous group of glandular cancers in man may thus extend beyond the limits of the known carcinogenic agents."

### CARCINOGENS AND VIRUSES

Peyton Rous showed that if Shope's papilloma virus is injected intravenously into rabbits whose ears have been painted with tar, it will localise in the tarred skin and rapidly produce growths which are from the first malignant. In the laboratories of the Fund, and of the National Institute for Medical Research, Andrewes, Ahlström, Foulds, and Gye have tried to produce connective-tissue tumours in the same way. Tar was injected intramuscularly, and Shope virus intravenously, and in each laboratory one rabbit of a small series developed a sarcoma where the tar had been injected. The usual effect was a fibroma at the site of the tar and also a generalised fibromatosis. Analysing the factors making for localisation at the point where the tar was injected Dr. Foulds found that the essential factor was the immediate tissue reaction to tar, and not the presence of tissue which, having been long in contact with tar, might be expected to be in a precancerous state. The conversion of fibroma into sarcoma—the chief object of the experiments—was not again observed, and when Andrewes and Ahlström examined their sarcoma they could find no trace of virus in it.

From Chicago has come the report that if 1 : 2 : 5 : 6 dibenzanthracene is injected repeatedly into rabbits these animals become much better media for the growth of transplanted Brown-Pearce rabbit carcinoma, and the idea has been put forward that carcinogenic compounds containing the phenanthrene ring alter the tissues so as to make them more susceptible to tumour growth. Dr. Gye, in commenting on this hypothesis, recalls an observation by Dr. Foulds that trypan-blue (which is not carcinogenic) has much the same effect as dibenzanthracene. "It is safe," he says, "to conclude that the generalised action of dibenzanthracene on the Brown-Pearce tumour is distinct from its local carcinogenic action. The experiments are nevertheless interesting in suggesting that the remote action of some or perhaps all carcinogenic substances on tumour implants and on infections with the fibroma virus may be allied to the action of non-carcinogenic vital dyes."

Early this year Woglom, of New York, discovered that subcutaneous abscesses arising as a complication of experiments with a rat tumour could be serially transmitted by a filtrable agent. Dr. R. Knox, experimenting with Woglom's material, finds that this filtrable agent has an average diameter of about 0·2 μ. The interest of this lies partly in the fact that the virus is found as a contaminant of a tumour, and partly in the fact that it is pyogenic.

### HORMONES

Dr. W. Cramer and Mr. E. S. Horning, D.Sc., have continued their studies of the changes seen in the ductless glands after prolonged treatment with œstrone. Histological study of the anterior pituitary suggested that there may be a physiological antagonism between œstrone and the hormones secreted by the pituitary acidophil cells. Experiments on mice showed that if thyrotropic pituitary hormone is given with œstrone it prevents the proliferation of mammary epithelium and degranulation of anterior-pituitary cells produced by œstrone alone.

These experiments were repeated on inbred mice having a high incidence of mammary cancer, and of 25 females treated with thyrotropic hormone as well as œstrone none developed cancer although they all reached an age at which tumours would have been expected in half of them.[2] "It was proved in this way that the thyrotropic hormone which stops the action of œstrone on the pituitary body and on the mammary gland also prevents in this specially selected strain of mice the spontaneous development of breast cancer."

### TISSUE CULTURE—RADIATION

In his work on tissue culture Dr. R. J. Ludford has previously shown that tumour virus, obtained from fowl sarcomas, is able to transform normal connective-tissue cells into malignant cells. In further experiments he has noticed that from time to time a substance occurs which neutralises virus, and he is trying to trace its source. Many observations have also been made in the laboratories on the comparative action of chemical compounds on the growth of normal and malignant cells, and it has been found that the Bayer compound Germanin promotes the liquefaction of fibrin exhibited in tissue culture by most malignant cells and some non-malignant ones. This is regarded as "a specific excitation of a particular cell function by a certain class of chemical

[1] Thirty-sixth annual report of the Fund (1937–38). Offices: Royal College of Surgeons, Lincoln's Inn-fields, London, W.C. Laboratories: Burtonhole Lane, The Ridgway, Mill Hill, N.W.7.

[2] This work appeared in the *Lancet*, 1938, 1, 72.

compounds" and its significance is being further explored.

Strong, of Yale, has reported that inclusion of heptyl aldehyde in the diet of mice with mammary cancers causes extensive liquefaction of the tumours, and sometimes complete regression. It appeared that the action of heptyl aldehyde was on the connective-tissue framework of the tumours, and when the substance was applied to mixed cultures of fowl tumour cells and chick fibroblasts no selective action upon the growth of the malignant cells was demonstrable.

The last section of Dr. Gye's report is concerned with radiation. Writing of the work on the biochemical effects of radiation carried out in the Fund's laboratories by Dr. Cramer and Mr. H. G. Crabtree, he recalls that its general purpose has been to determine whether certain enzyme systems in the living cell are differentially affected by radiation. It has been demonstrated that the glycolytic process used by the cancer cell is specifically vulnerable to radiation applied at low temperature, and that glycolysis in the retina is inhibited similarly, but even more rapidly than in tumours. In a joint investigation by Mr. Crabtree and Mr. L. H. Gray, Ph.D., at Mount Vernon Hospital inhibition of retinal glycolysis by irradiation at different wave-lengths and for different periods has been studied, and it has been ascertained that a given dose of radiation, measured in röntgen units, whether gamma, beta, or X radiation, produces exactly the same percentage inhibition. "The experiments with this material give no evidence of any dependence of biological effect on the quality of the radiation used," and generally similar results were obtained in a few experiments with tumour tissue. The effect of a given dose, however, is greater if the time of irradiation is prolonged.

# PARLIAMENTARY INTELLIGENCE

BOTH Houses of Parliament adjourned on Dec. 22nd for the Christmas recess. The House of Lords will reassemble on Feb. 7th and the House of Commons on Jan. 31st. The usual resolutions were passed providing for the summoning of Parliament at an earlier date in case of emergency. The Royal Assent was given to the Expiring Laws Continuance Act and the Housing (Financial Provisions) (Scotland) Act.

## NOTES ON CURRENT TOPICS

### Unemployment and the Social Services

On the motion for the adjournment in the House of Commons on Dec. 22nd, Mr. LAWSON, on behalf of the Labour Party, raised the question of unemployment. He said that he recognised that much was being done by individuals to improve the lot of the unemployed, but when the most was said on that score it must be agreed that Christmas was a grim, gloomy, and cheerless time for the great bulk of the unemployed and their dependents. The long continued unemployment in the distressed areas did something to the spirit of the people which he sometimes thought was worse than the physical harm it caused. The conditions were now worse in those areas than at the beginning of the nineteenth century, and things were evil enough then. He could not understand why the Minister of Labour remained so stolid and immovable in face of the evidence relating to unemployment. Had the Government abandoned any hope of dealing with this situation?

Mr. BUCHANAN said that unemployment was a disease and should be treated as such.

Mr. ERNEST BROWN, Minister of Labour, replying to the debate, said it was not fair to represent to the world that there were 2,000,000 unemployed in this country and that every unit of them was in a precisely similar position. He (Mr. Brown) was the Minister who, with the good will of all sections of the House of Commons, had introduced for the first time an extra winter allowance of two shillings a week to meet the necessities of coal, fire, and heating. It was quite simple to say, "It is only two shillings," but when they were dealing with hundreds of thousands of people the House knew that that was a very great contribution. He advised hon. Members to study the latest return of social services, which was a very remarkable document. From that return it was learned that a great deal was being done by this country. In no country were there more generous individuals than here, but this was not merely a country where individual private effort was released to assist unfortunate people; ours was the country greatest in the world for the carrying out of public good nature. In the last three years £80,000,000 of public money had been spent annually on unemployment insurance and unemployment assistance. The House must also remember the large amount of money, amounting to nearly £500,000,000 a year, which was being spent on the social services. This was organised public effort and good nature to a large degree, and it did not do justice to this country to suggest that we were insensitive to the needs of our unfortunate fellow citizens. The grave problem of unemployment was one which had come upon us with speed and swiftness, and one which did not yield to any single measure. He claimed that in the last four years a great deal of constructive work had been done. The Government would go ahead with their endeavours to see that industries became more diversified in the areas which had been too long dependent on one or more of the heavy trades which were now badly suffering from the reactions to alterations in the conditions of the industries, the tension in the international sphere, and the unstable primary price level.

### Dangerous Drug Traffic in the Far East

Lieut.-Commander FLETCHER raised the question of the work of the advisory committee on drugs at Geneva. He said that good will towards the suppression of the drug traffic had been shown by most Governments with the exception of the Japanese Government. The Japanese had fostered the consumption of drugs not only in China but all over the world, including Canada; and they had smuggled cocaine into India. The good work of the League of Nations in dealing with the drug traffic was being undone by the Japanese Government to whom it had been left to produce pestilence to pay for war. It was a ghastly crime against international decency.

Mr. BUTLER, Under-Secretary for Foreign Affairs, said that the Government viewed with grave concern the drug situation as described by the Opium Advisory Committee last June, and reviewed by the League of Nations this autumn. One very serious feature of the growth of the traffic had been the growth of the use of heroin, the effects of which were far more serious than opium. The resolution passed at Geneva, which was sent to H.M. Government in common with other Governments, would receive the close attention of the Foreign Secretary and himself. There was in 1936 an Anglo-Japanese Drug Traffic Agreement. No immediate action had followed on that agreement until this autumn, when they had arranged for closer coöperation between His Majesty's diplomatic and consular officers in the Far East and similar representatives of the Japanese Government. The British officers had been instructed to coöperate with the appropriate Japanese authorities by mutually communicating information regarding the proceedings

and movements of persons known to be engaged in the illicit drug traffic. This new coöperation had only just been put in motion, and though it might not amount to an immediate solution of this great problem, it did at least mean that they were in closer touch with the representatives of Japan, and that in that manner they would be able to illustrate the gravity which they attached to the matter.

From the information in the possession of the Secretary of State for Foreign Affairs there was no evidence that the increase of drug traffic in China was the outcome of any deliberate plan on the part of the Japanese Government, or that it was aimed deliberately at the systematic demoralisation of the Chinese people. He thought that the diagnosis which most correctly fitted this extremely serious position was somewhat as follows: The reports received by H.M. Government from the north of China seemed to confirm the statement made at the meeting of the Opium Advisory Committee last June. In the north of China before the Japanese occupation in 1937 an attempt was made by the Chinese Central Government to enforce the drastic opium and narcotic laws which had been promulgated by them in 1935. Since the Japanese occupation of this region these deterrents had to a large extent disappeared, and as they disappeared the position had become worse. A report on the drug situation in Manchuria had been called for from His Majesty's representatives. The position in Central China did not appear to be so serious. His Majesty's Government had preferred the international approach in this matter, and they believed that here was a real opportunity for the League of Nations. They intended to continue their efforts in coöperation with other Governments to deal with the dangerous drug traffic.

## QUESTION TIME

TUESDAY, DEC. 20TH

### Old Age Pensioners and Hospital Treatment

Mr. BUCHANAN asked the Secretary of State for Scotland if he was aware that in the case of an old age pensioner admitted to hospital by a local authority the old age pension could not be claimed without consent by the local authority; that in certain cases persons were having their pension taken without the pensioner's consent; and if he would take steps to have this ended.—Mr. COLVILLE replied: Where an old age pensioner is admitted to hospital by a local authority his pension cannot properly be drawn by the local authority without the pensioner's consent. If the hon. Member will send me particulars of any case in which it is alleged that a local authority has obtained payment of a pension without a pensioner's consent I shall be glad to have inquiry made.

### Methylated Spirit Drinking in Scotland

Mr. BARR asked the Secretary of State for Scotland the number of prosecutions for drunkenness caused by methylated spirits during the first six months of experience under the Methylated Spirits (Sale by Retail) (Scotland) Act, 1937; and also during the corresponding six months of the previous year.—Mr. COLVILLE replied: The Act referred to came into operation on Jan. 1st, 1938, but the local returns relate to six-monthly periods commencing on May 1st and Nov. 1st, and comparative figures for the first six months of the year are not therefore available. The latest returns show that in the course of the six months from May 1st to Oct. 31st, 1938, 297 persons were charged with offences of the nature referred to as compared with 1243 persons in the corresponding six months of last year.

### Cheap Wines and Drunkenness

Sir ARNOLD WILSON asked the Home Secretary whether his attention had been drawn to the continuous increase in convictions for drunkenness in England and Wales, from 33,100 in 1932 to 52,425 in 1937; the incidence of convictions per million being over three times as great in Greater London as in the rest of England and Wales; and whether he would institute special inquiries with a view to ascertaining how far this increase was attributable to the greatly increased consumption of cheap wines.—Sir SAMUEL HOARE replied: In the years from 1924 to 1932 there was a steep fall in the number of convictions for drunkenness. Since 1932 the figure has risen each year though the total is still substantially lower than in 1930. The question of what steps can usefully be taken to elucidate the causes of the increase is at present engaging my attention and I am not in a position to say whether the factor to which my hon. friend refers has contributed materially to the increase.

### Food Research

Mr. ROBERT GIBSON asked the Minister of Health if he would consider legislation to set up a food research institute on which bodies interested in health, nutrition, and food might be represented, and to the support of which insurance companies dealing in life and sickness insurance should be invited to contribute on an equitable basis.—Mr. BERNAYS replied: There is at present a great deal of research on food problems and my right hon. friend doubts if a single institute of the nature suggested would be of service.

Sir RALPH GLYN asked the Minister of Health what were the terms of reference of the panel of food experts and chemists which had been established to inquire into the problem of food storage in time of national emergency; and what steps the Government proposed to take to expedite this inquiry so that a report might be available as soon as possible, and the House informed of its purport. —Mr. OLIVER STANLEY (President of the Board of Trade) replied: I understand that the food group of the Society of Chemical Industry has recently formed a nutrition panel for the study of food in relation to health and disease, and that the question of food storage in a national emergency will come within the scope of the work of the panel. I have, however, no information on this subject apart from what has been published in the press. I may add that the Food (Defence Plans) Department of the Board of Trade, since its establishment at the end of 1936, has received from the Department of Scientific and Industrial Research advice on a number of suggestions which have been made to the department as well as on other proposals respecting the storage and preservation of various kinds of foodstuffs.

### Training of Midwives

Mrs. TATE asked the Minister of Health whether he was aware that the Midwives Act was being used as a means for providing a short training in maternity nursing; and, as this was not a desirable state of affairs, whether he would consider amending the Midwives Act, 1936, in order to remedy it.—Mr. BERNAYS replied: My right hon. friend is not satisfied that there are good grounds for modifying the decision of Parliament, as expressed only two years ago in Section 6 of the Midwives Act, 1936. My right hon. friend does not think he could agree with my hon. friend that the arrangements referred to in the first part of the question are to be deprecated.

WEDNESDAY, DEC. 21ST

### Shuttle Kissing and Public Health

Mr. BURKE asked the Home Secretary if he had arrived at any conclusion as to the advisability of making regulations under the Factories Act for the elimination of shuttle kissing in weaving sheds.—Mr. GEOFFREY LLOYD, Under-Secretary, Home Office, replied: A committee of representatives of employers and operatives, with a member from the Cotton Industry Research Association, was set up by agreement, under the chairmanship of the superintending inspector of factories at Manchester, to go into this matter. They considered that in the first instance further experiments with hand-threaded shuttles were desirable, and such experiments have since been proceeding. I understand that a further meeting of the committee is proposed for next month, to consider results.

THURSDAY, DEC. 22ND

### Supply of Milk to School-children

Mr. DAY asked the Parliamentary Secretary to the Board of Education whether he would state, according to the Board's statistics, the number of elementary schools

in England and Wales in which no arrangements had been made for the supplying of milk to the children attending such schools.—Mr. KENNETH LINDSAY replied: On March 31st, 1938, the latest date for which figures are available, out of a total of 29,223 public elementary school departments in England and Wales 1920 made no arrangements for the supply of milk. This represents 6·6 per cent. of the total number of departments, but the departments making no arrangements were for the most part small and contained less than 3 per cent. of the total number of public elementary school-children.

### Holiday Camps for Young Persons

Sir GIFFORD FOX asked the Parliamentary Secretary to the Board of Education whether any action had yet been taken under the Physical Fitness Act to build and equip holiday camps for young persons; and whether, in view of the useful purpose which such camps might serve in an emergency, he could arrange to expedite their development, if necessary, in conjunction with the Lord Privy Seal's Department.—Mr. KENNETH LINDSAY replied: The Board's powers under the Physical Training and Recreation Act to make grants in aid of the building and equipment of holiday camps extend only to projects put forward by local authorities and local voluntary organisations. A number of applications for grants under the Act have been received and, except in a few cases, offers of grant have been made. My hon. friend will no doubt have seen references in the press to a scheme of holiday camps now under consideration by the local committee for London and Middlesex, and the National Fitness Council is actively considering the question of holiday camp provision in consultation with certain national bodies. My hon. friend can be assured that in this matter there will be no lack of coöperation between the Lord Privy Seal and my noble friend.

### Occupational Therapy at Park Prewett

Miss RATHBONE asked the Minister of Health if he was aware that two Commissioners of the Board of Control who visited Park Prewett mental hospital in July, 1937, made an entry in the visitors' book to the effect that they had been disappointed at the progress made in occupational therapy and that little appeared to be done for those patients who were in need of occupational treatment; whether he was satisfied that the defect referred to in this entry either had not existed or had now been remedied; and how often and on what dates had Park Prewett hospital been inspected since the date when this complaint was made.—Mr. ELLIOT replied: The reply to the first part of the question is in the affirmative. Two Commissioners of the Board of Control visited the hospital again on Oct. 14th last and reported that, since the previous visit, a welcome advance had been made in the development of occupational therapy, though there were certain directions in which they suggested the possibility of further advance.

### Value of Milk Pasteurisation

Sir ERNEST GRAHAM-LITTLE asked the Minister of Health whether, in view of the conflicting opinions which were still expressed with regard to the value of pasteurisation, he would cause a judicial inquiry to be made into this matter at the earliest opportunity so that a final and considered decision could be given.—Mr. ELLIOT replied: I am advised that the facts with regard to pasteurisation are well known. The conflict is as the hon. Member indicates a matter of opinion. I do not think that any useful purpose would be served by taking the course suggested.

### Treatment of Cancer

Mr. GROVES asked the Minister of Health whether the cures of cancer by Mr. Rees Evans had been brought to his notice; and whether, in drawing up his plan for a cancer service, he had considered any of the unorthodox treatments which were claimed to have numerous successes.—Mr. ELLIOT replied: Mr. Rees Evans's claims have been brought to my notice but so far as I am aware he has never disclosed the nature of his remedy. The Cancer Bill does not specify methods of treatment; its purpose is to provide a framework within which it will be possible for local authorities to make arrangements under which every person requiring treatment for cancer will be able to receive the treatment most appropriate to his case.

# PANEL AND CONTRACT PRACTICE

## An American Study of British Health Insurance[1]

Dr. and Mrs. Orr came to this country to study our system of health insurance, not in order to confirm preconceived opinions for or against what in America is called "State medicine," but to find out at first hand what the system does and what is thought of it by the insured people themselves and by the doctors responsible for providing them with medical care. They gathered information not only from the usual sources—Government departments, insurance committees, approved societies, and the B.M.A.—but also from personal interviews with large numbers of insured persons and insurance doctors in many parts of the country, and by a questionnaire circulated in working-men's clubs associated with settlements, the replies to which are tabulated in an appendix to their book. They were unusually pertinacious in their questioning. "Without even a twinge of conscience," they write, "we interviewed everyone we met: the maids who tidied up our rooms, waiters who served our meals, and even the hairdresser at Marshall and Snelgrove's store in Oxford-street." It is safe to say that their inquiry is the most searching yet made into British health insurance by any non-British observer.

The book is written in a clear vivacious style and presents an accurate, well-informed, and readable description of British health insurance and its relation to hospital contributory schemes, public medical services, public assistance, and other forms of public provision of medical care. The authors evidently enjoyed their work, and the zest with which they attacked it is communicated to the reader. They have produced an informative and entertaining book, which should do much to dispel the prevalent misconceptions of health insurance in America, and will be found useful in this country, particularly by insurance practitioners and administrators and other social workers. The authors say that the evidence they have collected proves that "there is in England a scheme of health insurance which works and which, within its admittedly limited scope, is regarded with general satisfaction and approved by doctors, insured persons, and the public at large." They point out, however, that the scheme is defective in that it provides a limited range of medical services and includes no provision for the dependants of insured persons. Any scheme of health insurance that may be adopted in America should, in their view, begin with a more complete range of medical service and should take the family as the unit. They think also that in an American scheme the medical services should be separated from the cash benefits, which should preferably be administered by the existing machinery for dealing with unemployment benefits. Mr. Lloyd George contributes a foreword commending the book warmly to the attention of the public, both in England and in America.

[1] Health Insurance with Medical Care: The British Experience. By Douglass W. Orr, M.D., and Jean Walker Orr. New York: The Macmillan Company. 1938. Pp. 271. 12s.

# MEDICAL NEWS

## University of Cambridge

Dr. W. Feldberg, formerly of the University of Berlin, has been appointed lecturer in physiology for three years from Oct. 1st last.

Miss Marie Jahoda, Ph.D., of Vienna, has been appointed to the Pinsent-Darwin studentship for the study of mental pathology for one year.

At recent examinations the following candidates were successful :—

FINAL EXAMINATION FOR M.B., B.CHIR.

*Part I (Surgery, Midwifery, and Gynæcology).*—R. H. Armin, J. Aspin, D. M. Baker, G. C. Barron, H. F. S. Beadles, K. G. Bergin, J. R. Bolton, J. F. Buchan, K. P. S. Caldwell, A. G. H. Clay, M. A. X. Cochemé, K. H. S. Dalliwall, J. H. Dean, K. C. Dixon, R. H. Elphinstone, J. F. Erskine, G. H. Evans, R. M. Evans, W. B. Evans, T. Fenwick, A. D. Fisk, W. J. D. Fleming, C. M. Fletcher, R. Fletcher, R. G. D. Forward, T. C. N. Gibbens, M. O. J. Gibson, J. A. Glover, E. S. Goller, I. R. S. Gordon, G. S. Graveson, J. M. E. Hannaford, G. W. Harris, R. D. Hearn, R. P. Hendry, W. F. Holman, A. C. C. Hughes, I. M. Jackson, T. G. S. James, J. Jordan, G. J. Laws, A. M. Lewis, G. M. Lewis, F. M. McGown, I. C. K. Mackenzie, K. S. MacLean, R. W. J. Maclure, J. M. Marchant, A. J. Moss-Blundell, J. M. Naish, J. C. R. Nuttall-Smith, A. M. Ogilvie, L. D. Osler, J. N. Pattinson, J. H. Penrose, C. P. Petch, A. L. Phillips, R. Piper, H. L. Porter, B. W. Powell, D. Rice, R. Rowlandson, W. H. S. St John-Brooks, P. D. Samman, M. Savory, M. J. Scott, P. D. Scott, R. C. Southern, J. R. Squire, A. Standeven, A. J. S. B. Tawse, A. M. Thomas, P. S. Thorne, R. C. H. Tripp, P. Unwin, D. B. Wallis, H. R. E. Wallis, J. Watson, G. C. Wells, H. W. Whittingham, A. J. Wilson, R. Wilson, and R. Wright.

*Part II (Physic, Pathology, and Pharmacology).*—H. St. C. C. Addis, J. Arnott, G. Bourne, B. R. Bray, E. B. Brennan, J. Clutton-Brock, P. C. Conran, C. H. C. Dent, E. S. Dismorr, A. R. P. Ellis, G. H. Evans, R. G. D. Forward, G. A. Fowler, E. K. Gardner, W. R. Gavin, C. W. C. Gough, E. F. Graham-Kerr, J. M. E. Hannaford, M. H. Harmer, I. T. Hinde, C. H. Hoskyn, T. B. Hutton, J. D. H. Iles, R. D. S. Jack, H. M. James, E. P. Jowett, A. Leese, M. Lloyd, V. L. Lutwyche, B. E. Miles, M. E. Moore, G. F. Panton, H. G. Percy, J. S. Phillpotts, G. C. Pritchard, D. L. Ridout, G. S. Robinson, C. J. Rooke, D. Russell-Davis, E. W. Somerville, R. C. Southern, D. C. Sturdy, P. Unwin, J. D. Wade, D. O. Walker, J. Watson, J. M. Wilkin, R. H. Winfield, R. L. Witney, and B. M. Wright.

## University of London

At recent examinations the following candidates were successful :—

M.S.

*Branch I (Surgery).*—E. W. Bintcliffe (St. Bart.'s), J. A. Currie (Guy's), and A. J. C. Latchmore (Leeds).

*Branch III (Ophthalmology).*—H. W. Applin (Guy's and Royal Westminster Ophthalmic Hospital).

FINAL EXAMINATION FOR B.D.S.

A. G. Beaton (Guy's Hosp.).

*Group II*—A. S. Peters (Univ. Coll. Hosp.).

D.M.R.

Philip Beinart (St. Bart.'s).

POST-GRADUATE DIPLOMA IN CLINICAL PATHOLOGY

Kai-fun Woo (London Hosp.).

## University of Glasgow

On Wednesday, Jan. 18th, at 8.15 P.M., in the Tennent Memorial Institute, Dr. Emil de Grósz, professor of ophthalmology in the University of Budapest, will deliver a lecture on the surgery of the eye in Hungary. All interested are invited to attend.

## National University of Ireland

At recent examinations held at University College, Cork, the following candidates were successful :—

M.D.

J. B. O'Regan and William O'Sullivan.

M.CH.

J. G. Barrett.

FINAL EXAMINATION FOR M.B., B.CH., B.A.O.

E. J. Cantillon (with first-class honours); William Cranley, J. A. Seavers, and J. J. McGrath (with second-class honours); T. J. Bird, J. W. Byrne, E. J. Cantillon, William Cranley, F. C. Devlin, F. J. Laycock, W. F. Lenahan, J. A. McCarthy, J. J. McGrath, J. P. Mulligan, J. P. Nolan, Maurice O'Brien, Anthony O'Connor, H. A. O'Grady, David O'Keeffe, P. J. O'Reilly, H. J. J. O'Sullivan, W. N. Philpot, Sydney Rosehill, J. A. Seavers, and D. R. Tully.

*Part I*—D. J. K. McCarthy.

*Part II*—M. A. Carroll, M. G. O'Mahony, J. V. O'Sullivan, and P. J. O'Sullivan.

D.P.M.

M. J. Kennefick.

D.P.H.

John O'Sullivan.

## University of Manchester

Dr. R. E. Lane, medical officer of the Chloride Electrical Storage Company, Manchester, has been appointed lecturer in factory hygiene.

## University of Leeds

At recent examinations the following candidates were successful :—

FINAL EXAMINATION FOR M.B., CH.B.

*Part I.*—A. N. T. Aikman, T. Akroyd, J. B. Ashmore, C. E. Astley, P. D. Bedford, C. H. Boyd, A. Colbert, J. B. Coltman, E. Cope, F. Debney, R. G. Denniss, Patricia M. Dobinson, J. M. Fitton, M. M. Frais, M. Goldberg, H. Goldstone, Mary E. Goodson, F. Gouldsborough, A. Green, A. Greenwood, G. Higgins, J. Hirst, H. J. M. Holland, Adelaide J. G. James, F. Jennings, R. E. Johnson, Jean Middlemiss, D. E. Mitchell, L. H. Moss, A. Percival, C. Pickard, I. G. W. Pickering, J. D. Pickup, T. B. Purdy, P. Rapaport, G. N. Reed, L. Rosenthal, F. Sandy, J. F. Scannell, J. V. Schofield, Helen M. Secker, W. Sheffield, F. N. Shuttleworth, I. Mary Shuttleworth, S. A. Swanson, E. S. Tan, P. E. R. Tattersall, A. L. Taylor, P. J. Waddington, R. P. Warin, K. D. Wood, and I. Young.

D.P.H.

Mary W. Taylor.

## House Management Practice

The Royal Sanitary Institute will hold a meeting at 90, Buckingham Palace-road, London, S.W., on Tuesday, Jan. 10th, at 5.30 P.M., when Dr. J. Greenwood Wilson, medical officer of health for Cardiff, will open a discussion on this subject. Miss Emily Murray, secretary and estate manager of the Westminster Housing Trust, will also speak, and the chair will be taken by Lord Balfour of Burleigh, president of the institute.

## Centenary of Medical Journal

The *Medical Press and Circular* is celebrating its centenary this month. It was founded in January, 1839, in Dublin, by Mr. Arthur Jacob, under the title of the *Dublin Medical Press* and in 1866 it absorbed the *Medical Circular* and became the *Medical Press and Circular.* From the date of the amalgamation it has been published in London. A book entitled "The Medical Press and Circular 1839–1939, The History of a Journal" will be published in connexion with the centenary, and a dinner will be held at Claridge's on Jan. 25th next.

## Neuroses in War-time

Six lectures, open only to medical graduates, will be given on this subject with special reference to the civilian population at the Tavistock Clinic on Thursdays at 2.30 P.M. and 3.30 P.M., beginning on Jan. 12th. The lecturers will be as follows: Dr. M. B. Wright (war and the civilian population); Dr. J. A. Hadfield (general ætiology and psychogenesis of the psychoneuroses); Dr. H. Crichton-Miller (conversion hysteria, and anxiety states); Dr. G. W. B. James (physical and psychotic syndromes); and Dr. J. R. Rees (emergency treatment of neurotic states). Tickets may be had from the educational secretary of the clinic, Malet-place, London, W.C.1.

## Register of Chiropodists

A Chiropody Group Council has been formed which will act as the qualifying body in chiropody to the Board of Registration of Medical Auxiliaries which recently accepted members of the Incorporated Society of Chiropodists and the British Association of Chiropodists as official medical auxiliaries. The chairman of the new council is Mr. E. L. G. McManus, registrar of the board. The council will prepare an official register of approved chiropodists which will be circulated among medical practitioners, hospitals, municipalities, and other bodies as well as the general public. In a memorandum circulated to chiropodists this week the council points out that the practice of chiropody will in future be entirely directed and controlled within itself by means of the new council. All chiropody organisations are eligible for acceptance subject to their standard of training, ethics, and status complying with the requirements of the board. At present this applies only to the Incorporated Society of Chiropodists and the British Association of Chiropodists.

# Medical Diary

*Jan. 2nd to Jan. 7th*

## SOCIETIES

ROYAL SOCIETY OF MEDICINE, 1, Wimpole-street, W.

WEDNESDAY.

*Surgery.*—8.30 P.M., Mr. A. H. M. Siddons: Swallowed Foreign Bodies. Mr. A. E. Porritt: The Injection Treatment of Hernia.

## LECTURES, ADDRESSES, DEMONSTRATIONS, &c.

CENTRAL LONDON THROAT, NOSE, AND EAR HOSPITAL, Gray's Inn-road, W.C.

FRIDAY.—4 P.M., Mr. N. Asherson: Pyrexia of Ear, Nose, and Throat Origin.

LONDON SCHOOL OF DERMATOLOGY, 5, Lisle-street, W.C.

TUESDAY.—5 P.M., Dr. A. C. Roxburgh: Syphilis.

THURSDAY.—5 P.M., Dr. J. M. H. MacLeod: Ringworm Infections. (Chesterfield lectures.)

# Appointments

BARER, MAX, M.B. Lond., Resident Medical Officer at the Queen's Hospital for Children, Hackney.

BARLOW, BERYL A., M.B. Manch., Resident Medical Officer at the Royal Manchester Children's Hospital.

BUTTERS, A. G., F.R.C.S.E., Resident Surgical Officer at the Prince of Wales's Hospital, Plymouth.

CAVANAGH, FLORENCE, M.B. Melb., Aural Registrar at the Royal Manchester Children's Hospital.

CLOUSTON, G. S., M.D. Liverp., Senior Assistant School Medical Officer for Middlesbrough.

EVANS, A. B., M.B. Camb., F.R.C.S., M.C.O.G., Registrar and Radium Officer (Gynæcological) at the Chelsea Hospital for Women.

FLEMING, J. A. C., F.R.C.S.E., D.R., Radiologist to the Dundee Royal Infirmary.

GREEN, H. J., M.B. Aberd., F.R.C.S.E., Senior Resident Officer at the Jessop Hospital for Women, Sheffield.

GREEN, J. H., M.D. Belf., D.C.H., Resident Medical Officer at the Princess Elizabeth of York Hospital, Shadwell.

MINTON, JOSEPH, F.R.C.S., Ophthalmic Surgeon to out-patients at Hampstead General and North-West London Hospital.

MURRAY, A. A., M.B. Edin., Resident Assistant Medical Officer at the Kingston County Hospital.

PEARSON, R. S. BRUCE, D.M. Oxon., M.R.C.P., Assistant Physician to King's College Hospital.

SALISBURY, C. V., F.R.C.S.E., Junior Resident Medical Officer at the City of London Maternity Hospital.

WOOLSTONE, A., M.R.C.S., Senior Resident Medical Officer at the City of London Maternity Hospital.

Examining Surgeon under the Factories Act, 1937: Dr. A. D. BELILIOS (Wimbledon District, Surrey).

# Vacancies

*For further information refer to the advertisement columns*

*Beverley, East Riding Mental Hosp.*—Deputy Med. Supt., £600.
*Birmingham and Midland Eye Hosp.*—H.S., at rate of £130.
*Blackburn County Borough.*—Asst. School M.O. and Asst. M.O.H., £600.
*Bolingbroke Hosp., Wandsworth Common, S.W.*—H.P., at rate of £120.
*Brecon County.*—Dist. M.O.H., £800.
*Brighton County Borough.*—M.O.H., £1250.
*Brighton Royal Sussex County Hosp.*—Hon. Orthopædic Surgeon.
*Dover Royal Victoria Hosp.*—R.M.O., £140.
*East Ham Memorial Hosp., Shrewsbury-road, E.*—Res. M.O., at rate of £200
*Essex County Council.*—Asst. School M.O., £500.
*Glasgow, Woodilee Mental Hosp., Lenzie.*—Second Asst. Res. M.O., £300.
*Glasgow Police Department.*—Three Cas. Surgeons, each £600.
*Glasgow Victoria Infirmary.*—Pathologist and Director of Clin. Research Laboratory, £1000.
*Gloucestershire County Council.*—Asst. County M.O.H., £600.
*Hampstead General Hosp., Haverstock Hill, N.W.*—Radiologist.
*Harrogate Royal Bath Hosp.*—Res. M.O., £200.
*Hexham, Wooley Sanatorium.*—Asst. M.O., £350.
*Hosp. for Consumption and Diseases of the Chest, Brompton, S.W.*—Three H.P.'s, each at rate of £50.
*Hosp. for Diseases of the Skin, Blackfriars.*—Hon. Asst. Physician.
*Hosp. for Sick Children, Great Ormond-street, W.C.*—Out-patient Surg. Asst., £50.
*Hull, Anlaby-road Institution.*—Asst. M.O., £350.
*Ilford, King George Hosp.*—Hon. Asst. Physician. Also Clin. Asst., 10 guineas.
*Infants Hosp., Vincent-square, Westminster.*—Res. M.O., £300.
*King Edward Memorial Hosp., Ealing.*—Cas. O. and Deputy Res. M.O., at rate of £225.
*Lancashire Mental Deficiency Acts Committee.*—Asst. M.O., £600.
*Lancaster and District Joint Hosp. Board.*—Res. M.O. for Board's Isolation Hosp., £425.
*Leeds, St. James's Hosp.*—Res. M.O., £350.
*Leicester City Isolation Hosp. and Sanatorium.*—Res. M.O., at rate of £300.
*Liverpool Royal Children's Hosp.*—Two Res. H.P.'s and Two Res. H.S.'s for City Branch, each at rate of £100. Also Res. M.O. and Res. Surg. O. for Heswall Branch, each at rate of £120.
*London Chest Hosp., Victoria Park, E.*—Surg. Reg., £100. Also Reg. to Ear, Nose, and Throat Dept., £50.
*London County Council.*—Asst. M.O., £750.
*London Hosp., E.*—Clin. Asst. to X Ray Dept., £100. Also First Asst. to Ophth. Dept., £50.
*Maida Vale Hosp. for Nervous Diseases, W.*—H.P., at rate of £100.
*Manchester, Ancoats Hosp.*—Asst. Pathologist, £400.
*Manchester Royal Infirmary.*—Res. Jun. M.O., for Barnes Convalescent Hosp. and Med. Reg. to Out-patient Dept., each at rate of £150. Also H.P.'s and H.S.'s to Spec. Depts., each at rate of £50.
*National Temperance Hosp., Hampstead-road, N.W.*—H.P., at rate of £100.
*Oxford, Radcliffe Infirmary.*—Asst. Physician to Dept. of Physical Medicine, £400.
*Rochdale Infirmary and Dispensary.*—Sen. H.S., £250.
*Rotherham General Hosp.*—Hon. Ophth. Surgeon.
*Royal Eye Hosp., St. George's-circus, Southwark, S.E.*—M.O. for Children's Orthoptic Clinic and Clin. Asst., £100.
*Royal Free Hosp., Gray's Inn-road, W.C.*—Res. Cas. O., at rate of £150.
*Royal London Ophthalmic Hosp., City-road, E.C.*—Out-Patient Officer, £100.
*Royal National Orthopædic Hosp., 234, Great Portland-street, W.*—H.S. for Country Branch, at rate of £150.
*Royal Naval Medical Service.*—M.O.'s.
*Royal Surgical Aid Society, Salisbury-square, E.C.*—Jun. Surgeon, 100 guineas.
*St. Albans, Cell Barnes Colony.*—H.P., at rate of £200.
*St. Helen's Hosp., Lancs.*—Jun. H.S., £150.
*Salisbury General Infirmary.*—Res. M.O., £250. Also H.P., at rate of £125.
*Samaritan Free Hosp. for Women, Marylebone-road, N.W.*—H.S., at rate of £100.
*Sheffield City Education Committee.*—School M.O., £800.
*Shoreditch Metropolitan Borough.*—Asst. M.O.H., at rate of £650.
*Shrewsbury, Royal Salop Infirmary.*—Two H.S.'s and Res. H.P., each at rate of £150.
*Southall Borough.*—Asst. M.O.H., £600.
*South Shields, Ingham Infirmary.*—Res. Surg. O., £300.
*Stroud Urban and Rural Districts and Nailsworth Urban District.* M.O.H. and School Medical Inspector, £800.
*Sunderland Royal Infirmary.*—Cas. O. and H.S., at rate of £120.
*West Riding of Yorkshire County Council.*—Asst. M.O.H., &c. for Adwick-le-Street, &c., U.D.C.'s, £800.
*Weston-super-Mare Hosp.*—Res. H.P., £150.
*Willesden Corporation.*—Asst. M.O., £600.
*Wolverhampton Royal Hosp.*—Res. Anæsthetist, at rate of £200.

Medical Referee under the Workmen's Compensation Act, 1925, for the Lerwick Sheriff Court District (Sheriffdom of Caithness, Orkney, and Shetland). Applications should be addressed to the Private Secretary, Scottish Office, Whitehall, London, S.W.1, before Jan. 18th; and for the Barnard Castle, Darlington, Leyburn, Northallerton, and Richmond County Court Districts (Circuit No. 2). Applications to the Private Secretary, Home Office, Whitehall, London, S.W.1, before Jan. 18th.

# Births, Marriages, and Deaths

## BIRTHS

CHESSER.—On Dec. 21st, at Sutton, Surrey, the wife of Dr. Sam Chesser—a daughter.

CLAYE.—On Dec. 20th, at 1, North Grange Mount, Leeds 6, to Elaine, wife of Andrew Moynihan Claye, M.D., F.R.C.S.—a daughter.

HOBBS.—On Dec. 25th, at Ealing, the wife of Dr. A. Noël Hobbs—a daughter.

PHILLIPS.—On Dec. 20th, the wife of Dr. John Phillips, Alfreton, Derbyshire—a son.

## MARRIAGES

BOUSFIELD—GALSWORTHY.—On Dec. 23rd, at St. Jude's-on-the-Hill, Hampstead, Leonard Bousfield, M.D., Sudan Civil Service (retired), to Agnes Dingwall, widow of F. Trevor Galsworthy.

## DEATHS

HOLL.—On Dec. 22nd, in London, Francis Harold Holl, M.R.C.S. Eng., Surg. Capt. R.N. (retd.).

HOSFORD.—On Dec. 19th, at Hornsey-lane, Highgate, N.6, Benjamin Hosford, M.D., M.S. R.U.I., aged 78.

I'ANSON.—On Dec. 20th, at Ashstead, Surrey, Welby I'Anson, M.D. Edin., formerly of Whitehaven, Cumberland, aged 85.

MAYBURY.—On Dec. 19th, at Curdridge, Aurelius Victor Maybury, M.D., M.S. R.U.I., in his 90th year.

SPOKES.—On Dec. 18th, at Lewes, Sussex, Peter Sidney Spokes, M.R.C.S. Eng., L.D.S., in his 86th year.

STEPHENS.—On Dec. 18th, Dr. Grace Stephens, late of Gwalior, Central India, in her 78th year.

WATSON.—On Dec. 25th, Charles James Trustram Watson, M.R.C.S. Eng., of Pulborough, Sussex.

*N.B.—A fee of 7s. 6d. is charged for the insertion of Notices of Births, Marriages, and Deaths.*

# NOTES, COMMENTS, AND ABSTRACTS

## DISPARITY IN LOCAL HEALTH SERVICES

In the latest addition to the series of books on administrative research promoted by the Institute of Public Administration, Mr. Norman Wilson,[1] who has for many years been engaged on the administrative side of the Birkenhead public health department, presents a picture of the public health services now actually working in this country. His study is comparative, and he has therefore limited it to the county boroughs, partly because they have the widest powers and partly because it is only between bodies with equal powers that useful comparisons can be made. His plan is to select the four most important personal health services—maternity and child welfare, the health of the school-child, the care of the tuberculous, and the poor-law medical service—and to ascertain to what extent the different authorities vary in the adequacy of their provision of these services. The data were chiefly derived from the annual reports for 1934 of 79 medical officers of health.

The examination shows wide local differences in the extent of the services. This is shown by various methods, one being to compare the expenditure on the services in proportion to the population served. Though this method is open to objection, the disparities it reveals are so great that they must be regarded as significant. The net amount in pence expended in the year 1933–34 per head of population in 80 county boroughs was as follows :—

| | Maternity and child welfare | School medical inspection | Tuberculosis |
|---|---|---|---|
| Highest | 37·5 | 40·3 | 39·5 |
| Average | 15·9 | 15·1 | 22·0 |
| Lowest | 6·3 | 6·3 | 8·0 |

In the provision of services of national importance Mr. Wilson holds that such wide local variations, which he attributes largely to the poverty of the more backward boroughs, should not be allowed to continue. After discussing various suggestions that have been made to secure a more uniform fulfilment of function, he concludes that our system of local government is unfitted for this particular function and that the provision of health services should be taken over by the Ministry of Health. He suggests that the place of the local elected body should be taken by an officer of the Ministry, who might be designated public health commissioner. His case for this revolutionary change is ably argued and is worth consideration.

Mr. Wilson is one of those who in their anxiety to promote further advances in public health seem insufficiently mindful of the advances already made. Those whose memories of public health administration go back to the days, little more than 30 years ago, when there was no medical inspection of school-children, and no notification of births or of tuberculosis, have seen improvements that would have seemed almost Utopian in the old days. An administrative system which has brought about such changes for the better should not be scrapped until more determined attempts at amendment have been made and proved unsuccessful.

## THE CHICKEN-POX CONTACT

M.O.H. inquires whether chicken-pox can be spread by a healthy adult who has not himself suffered from chicken-pox but has been in contact with a case and remains in contact with a number of susceptible subjects.

Adult contacts are in fact rather insusceptible to chicken-pox, probably because they possess latent immunity, but they may act as vectors while themselves escaping clinical attack. Chicken-pox is intensely infective in the early stages of the attack, and there is some reason for thinking that the infectious period includes the end of incubation. Although the ordinary mode of spread is by personal contact between a patient and a susceptible child, there is little doubt that the virus may be conveyed for short distances through the air, and that attendants upon patients in the early stages may transmit the virus either in the nasopharynx or upon hands, hair, or clothing. Unless special precautions are taken nurses may spread chicken-pox from a side ward to the main ward. The main precaution should be scrubbing of hands ; in hospital it is desirable to carry out the complete technique of aseptic nursing.

## MALARIA IN TRANSFUSED BLOOD

Dr. F. Howell Wright, of New York, has collected twenty-three reported cases in which malaria was transmitted by transfusion or intramuscular injection of blood, and has added six others not previously on record (*J. Pediat.* 1938, 12, 327). All but one, which was of the æstivo-autumnal type, were examples of tertian or quartan malaria. The incubation period ranged from 1 to 56 days, two-thirds of the illnesses appearing between the 8th and 28th days. All responded to quinine therapy and only one relapse took place. Less than half the donors had malarial parasites in their blood smears, or had even had symptoms of malaria, but all had at one time been in malaria districts. The transmission of malaria in transfused blood can only be prevented with certainty, therefore, if all former inhabitants of malaria regions are excluded as donors—which seems to be a counsel of perfection.

## A DOCTOR'S VERSES

In his "Sober Pieces and Songs" (Cambridge University Press. Pp. 45. 5*s*.) Dr. William Branson has recorded his moods of philosophy and feeling with an Elizabethan turn of phrase. Usually he prefers rhythmic verse, and is happier in this than when he turns his hand to rhymes. If his similes are rarely profound or stinging they are often just.

> . . . To ills unmendable
> thought like the night air to a mushroom lends
> a giant's haste of growth. . . .

His descriptive passages call up accurate and careful rather than exciting images :

> Not in the dreaming woodlands, though at noon
> their hushed enchantment steals the breeze's breath
> and cotters' chimneys rear their plumes of grey
> unfaltering to heaven. . . .

This is a pleasant and orderly picture. He is at his best, perhaps, when he allows a shrewd dry wit to creep in ; in *Love, the leveller* he sums up nicely a common experience :

> Love sounds his trumpet, and the walls go down,—
> Birth, Custom, Schooling,—all seem paste-board now,
> . . . . . .
> But not for long. Time sets them up again,
> and now 'tis found that what seemed paste-board once
> has substance in it. Love, he knows, he knows !
> The mischief-maker ! Watch him steal away !

---

Sets of Bones Wanted.—The Scottish branch of the British Red Cross Society would be glad if any Scottish doctors who have osteology sets that they no longer require would lend them for the use of first-aid classes. Address : 206, Bath-street, Glasgow, C.2.

[1] Public Health Services. By Norman Wilson, M.A., Medical Officer's Department, Birkenhead. London : William Hodge and Co. 1938. Pp. 243. 7*s*. 6*d*.

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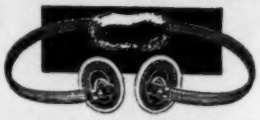

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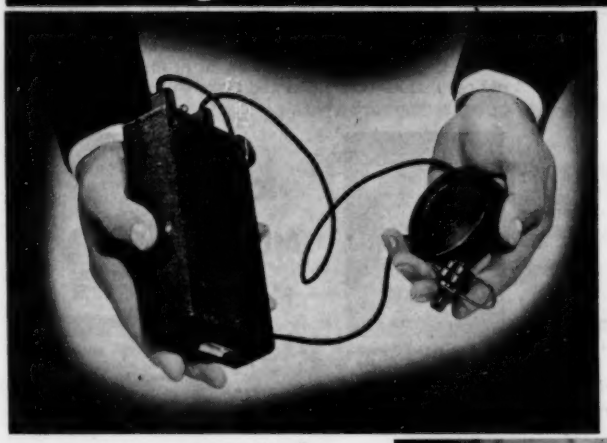

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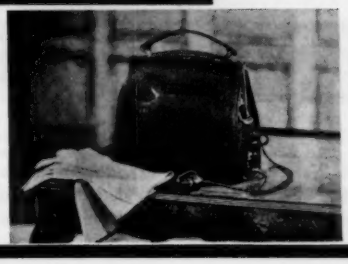
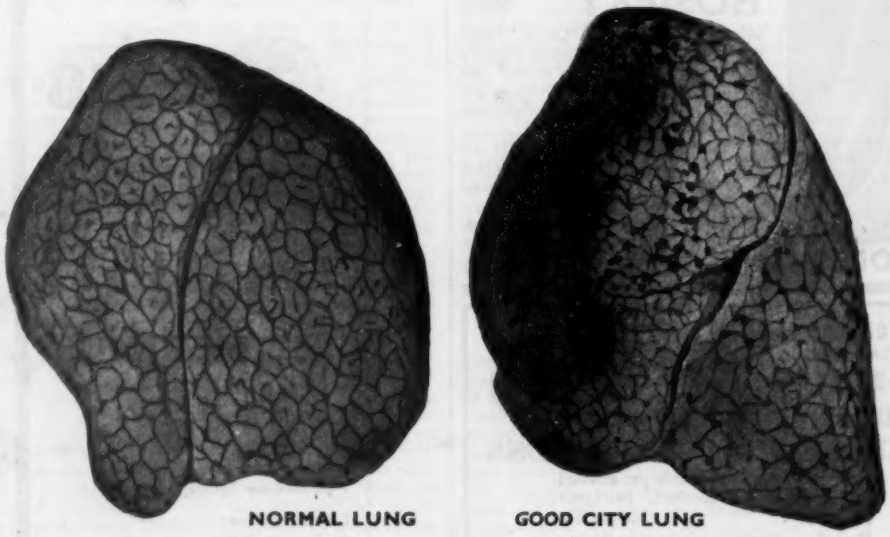




NORMAL LUNG GOOD CITY LUNG

# SMOKE

## GETS INTO YOUR LUNGS

These photographs are taken, by permission, from a new booklet, 'Britain's Burning Shame,' published by the National Smoke Abatement Society. In view of the importance of this book copies have made been available free at your Gas Showrooms.

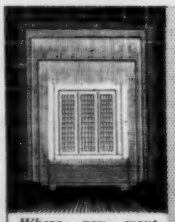
The booklet tells the whole horrible story of domestic smoke and the damage it does, inside and out.

Frightening photographs? Yes. But the facts are frightening too! The dirty air and frequent grimy fogs in big cities are, in their own way, mass murderers. If you study the graph of weekly deaths due to lung-diseases in London with the graph of winter fog-days, you will see that every fog-period is followed by a rise in deaths.

**70% of a city's fog and grime come from home chimneys burning smoky fuel.** *Is your chimney adding to the aerial sewage of England's towns?*

Every smoky chimney is contributing to general ill-health because that kind of smoke gets into the lungs and stays there. It breaks down immunity to infection and disease. Can anything be done about it? Yes. Every time someone decides to do away with an old-fashioned smoke-making fire in his house and burn a smokeless fuel (such as gas or coke), it means an extra minute, perhaps, of sunshine somewhere.

Gas and coke are working miracles to make homes clean inside. Eventually there will be an air fit for children and old people to breathe. Gas and Coke will have helped to bring that miracle to pass.



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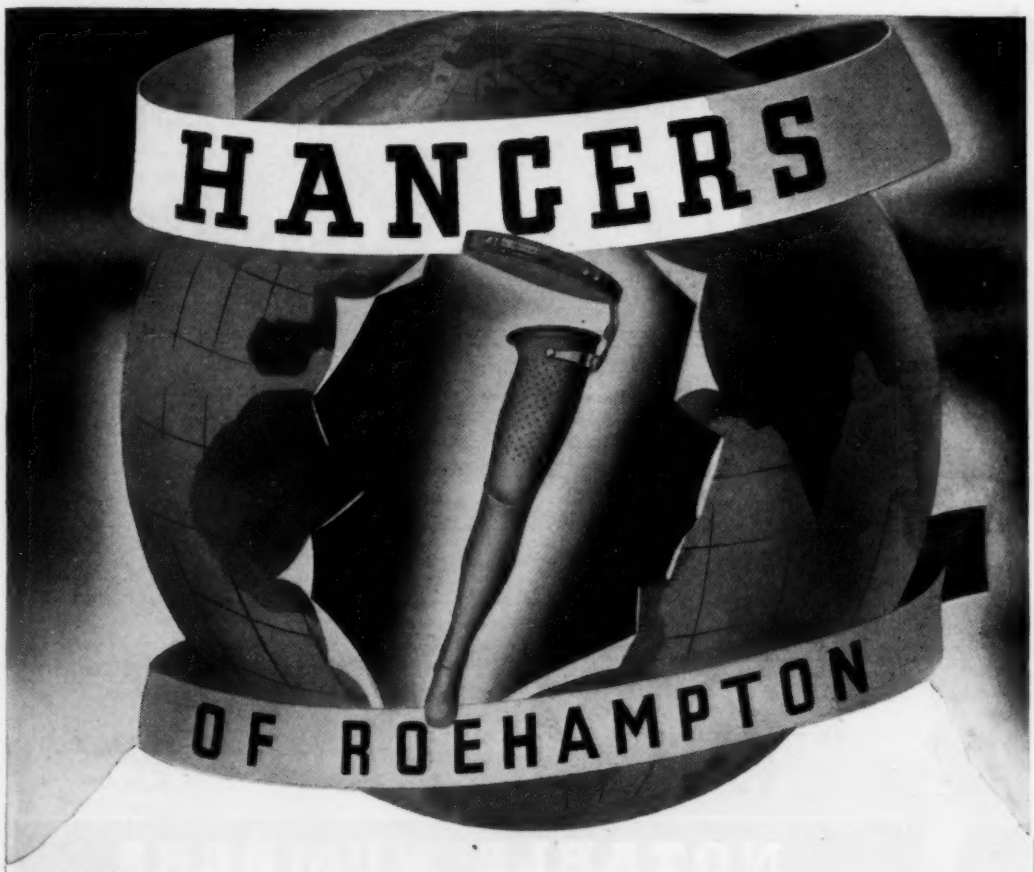
# GAS AND COKE

## The fuel of clean homes and cities

★ *The above facts and many others as to the injurious effects of smoke may be found in publications of the National Smoke Abatement Society, Chandos House, Buckingham Gate, London, S.W.1. By joining the Society, which is an independent body, you will keep up to date and help the campaign for cleaner cities.*

Issued by the British Commercial Gas Assoc., Gas Industry House, 1 Grosvenor Place, London, S.W.1

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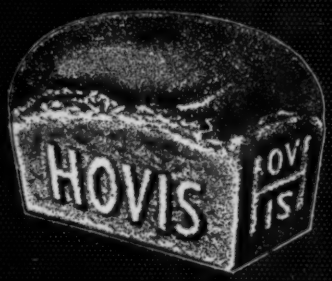


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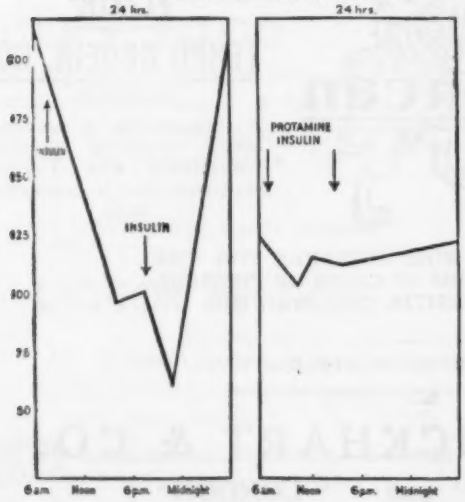


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THERAPEUTIC PRODUCTS LTD. (Dept L.32), AINTREE ROAD, PERIVALE, GREENFORD, MIDDLESEX.

*Now is the time for* **IMMUNITY**

**AGAINST COLDS AND INFLUENZA**

Detoxicated Vaccines—*for Safety.* Ordinary Vaccines—*for Economy.*
Oral Vaccines—*for Convenience.* Spray Vaccines—*for Local Immunity in the Respiratory Tract.*

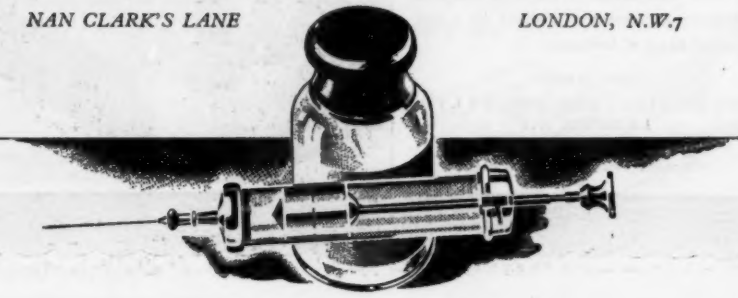
THE ABOVE VACCINES WHICH ARE PREPARED IN

**THE PICKETT-THOMSON RESEARCH LABORATORY**

*ARE NOW SUPPLIED ONLY BY*

**RESEARCH PRODUCTS LTD.**

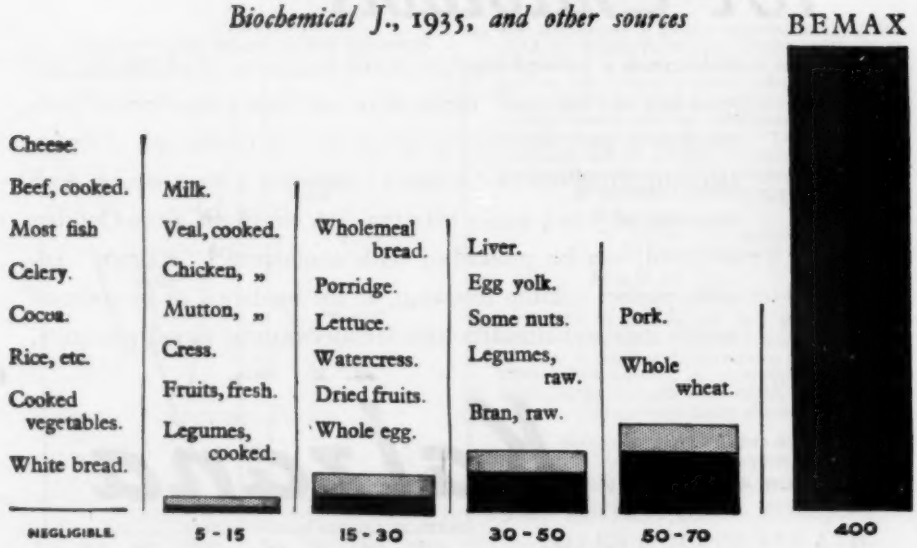
*NAN CLARK'S LANE* *LONDON, N.W.7*



D.A.2

# VITAMIN $B_1$ IN FOODS

*Biochemical J., 1935, and other sources*

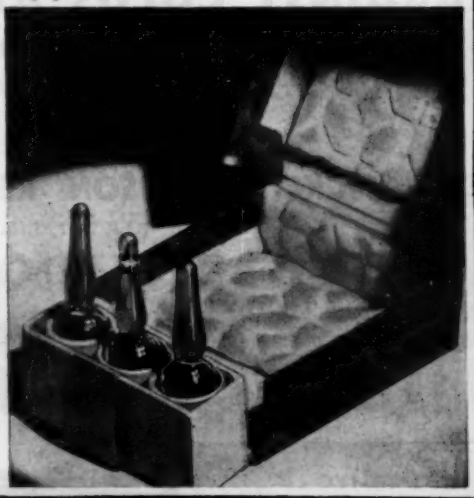



*The figures represent International Units per ounce.*

# ANAHÆMIN B.D.H.

*In the treatment of pernicious anæmia*

The administration of Anahæmin in pernicious anæmia has become a routine as a result of the uniformly satisfactory results produced. Such results are exemplified in a recent report in which it is stated that weekly injections of 2 c.c. of Anahæmin for one month produced an increase in red blood corpuscles from 536,000 to 3,700,000 and a rise in hæmoglobin from 25 per cent. to 60 per cent. At the end of a further six weeks' treatment it was found that the red blood count had risen to 4,600,000, and the hæmoglobin to 70 per cent. This increase in red blood cells from 536,000 to 4,600,000 was produced by a total dosage of 24 c.c. of Anahæmin.



*Sample on request*

THE BRITISH DRUG HOUSES LTD.
LONDON N.1
Telephone: Clerkenwell 3000
Telegrams: Tetradome Telex Londo

An/S/50

# "Vitamin $B_1$ deficiency an outstanding fault

## in the diet of many millions of people"

(*B.M.J.*, 16 *Oct.*, 1937, *p.* 753)

The reduction in Vitamin $B_1$ intake, due to changes in dietary habits during the last hundred years, normally amounts to at least 50 per cent., and may be as much as 70 per cent. It has been demonstrated, both experimentally and clinically, that a shortage of Vitamin B acts as a limiting factor in the maintenance of health and nutrition, and often results in gastro-intestinal disorders, loss of appetite, indigestion, constipation and, if long continued, to neuritis and arthritis.

The logical way to rectify such shortage is to restore to the diet the Vitamin B-containing substance whose removal is responsible for the deficiency.

This substance is available in the form of Bemax.

For years it has been the policy of the proprietors of Bemax to ensure its Vitamin $B_1$ activity by biological assay of *every day's output*. So far as is known, Bemax is the only food product for which such a claim is or can be made.

The quantity of Vitamin $B_1$ supplied by the normal daily dose of Bemax—one tablespoonful—is 200 International Units, an amount sufficient to raise a deficient diet to an optimal level.

The normal daily dose of Bemax supplies, in addition to Vitamin $B_1$, significant quantities of Vitamin $B_2$ and $B_6$, Copper, Iron and Phosphorus as well as rich quantities of Vitamin E and other essential dietary elements.

Bemax is an entirely natural product consisting only of stabilised wheat germs selected for their Vitamin $B_1$ activity with no addition whatsoever. Clinical sample and literature on request. Vitamins Ltd., The Bemax Laboratories (Dept.L.65), 23, Upper Mall, Hammersmith, W.6.

# Sterility and Habitual Abortion

The increasing use of Vitamin E for habitual abortion and sterility of dietary origin demands a wheat germ oil of proven high activity and of stable Vitamin value. Such an oil is available for the medical profession in Fertilol.

# FERTILOL

**Wheat Germ Oil Capsules**

*A highly active source of Vitamin E.*

*A complimentary box of Fertilol Capsules and brochure sent on request.*

**Vitamins Ltd., The Bemax Laboratories (Dept. L.65 ), Upper Mall, London, W.6.**

**WHEREVER and WHENEVER**

**MINERAL METABOLISM**

**is important, the hydrogen-ion balancing qualities of**

# Compound Syrup of Hypophosphites

# TRADE "FELLOWS" MARK

**have a distinct and important place.**

***All that's necessary is:***

***Samples on request***

**Fellows Medical Mfg. Co., Ltd.**
**286 St. Paul Street West**
**Montreal, Canada**

# Alphidine and Pancreatin

In the Treatment of

## Graves' Disease

**Palatinoid No. 3211, O.S. & Co.** with **Pulverette 'Alphidine,' O.S. & Co.**

Pancreatin, gr. 5. | Equals Iodine, gr. ½.

One thrice daily, before meals | One twice daily, between meals, on two or three days each week

For full particulars see B.M.J., Oct. 2nd, 1937, p. 660.

**Oppenheimer Son & Co. Ltd.**

**Handforth Laboratories, Clapham Road, LONDON, S.W.9**

# How many of your patients are Neurasthenic?

OUR own long e[illegible] shown us the [illegible] of present-day conditions o[illegible] nervous system, and while every Doctor has his own preferred treatment, we have been convinced by the many hundreds of testimonials we receive, that our nerve food has definitely assisted in recovery of serious cases.

Test Bilson's yourself and note its effect on your nerves—tired after hours of concentration—and you will then recommend it to your patients.

Bilson's Nerve Food is rich in organic calcium, sodium, phosphorus and iron. It is a valuable health builder and tonic for brain workers, and beneficial for growing children.

# BILSON'S NERVE FOOD

T. J. BILSON & CO.
PURE FOOD SPECIALISTS
19 GRAY'S INN ROAD, LONDON, W.C.1
Telephone: Holborn 4710

Is stocked by leading chemists and health food stores. . . . We shall be pleased to send a professional sample on request.

**FORMULA**

| | |
|---|---|
| Thyminic Acid .. .. | 0·10 |
| Hexamethylenetetramine . Anhydromethylenecitrate | 0·50 |
| Hexamethylene Tetramine | 2·50 |
| Piperazine Tartrate .. | 0·25 |
| Lithium Carbonate .. | 1·00 |
| Sodium Benzoate .. | 1·00 |
| Effervescent Base .. | ad 100 |

**DIRECTIONS**

One teaspoonful to be taken morning and night in a tumblerful of water.

*Uralysol,* in addition to being a solvent and eliminator of pathological Uric Acid, is a powerful urinary antiseptic.

Normally there exists in the body a certain quantity of uric acid, which assists general metabolism, and after it has played its part is eliminated together with the normal thyminic acid of the organism. When, however, uric acid is present in excess, the body needs additional thyminic acid to supplement the resultant deficit of this normal solvent of uric acid.

*Uralysol,* by its thyminic acid content, supplies the agent necessary to dissolve excessive uric acid.

The next step is the elimination of this thyminic-uric acid which, being in excess of normal, necessitates treatment by an agent capable of enhancing elimination.

*Uralysol,* by its content of hexamethylenetetramine and lysidin, stimulates the organism to eliminate the pathological uric acid already dissolved by its thyminic acid content.

*Samples and literature on request.*

CONTINENTAL LABORATORIES LTD. 30 MARSHAM STREET, LONDON, S.W.1

# Urethral Bleeding

URETHRAL bleeding from inflammatory areas, granulations, or trauma after instrumentation, respond quickly and definitely to the astringent and detergent qualities of Argyrol solution.

A 10 per cent. solution of Argyrol, injected and retained in the urethra for ten or fifteen minutes, usually controls all but the most severe bleeding and helps to restore the damaged mucosa to the normal.

We make this statement on the authority of a noted urologist who has used the method with satisfaction for many years.

**ARGYROL**

*BRAND SILVER VITELLIN*

★

It should be remembered that while there are many mild silver proteins, there is only one Argyrol, the prototype of them all, and it stands in a class by itself, *sui generis*, because no other silver product contains silver in the same chemical and physical state, nor protein of a similar high quality and suitability. Argyrol solution has never been successfully duplicated.

Insistence on having the name ARGYROL on all solutions ordered or prescribed, will ensure the clinical results you expect.

Sole Distributors:

**FASSETT & JOHNSON, LTD.,**

**86, Clerkenwell Road, London, E.C.1.**

THERE IS ONE AND ONLY ONE "ARGYROL," MADE ONLY BY: A. C. BARNES COMPANY. SOLE MAKERS OF ARGYROL AND OVOFERRIN

# Alphidine and Pancreatin

In the Treatment of

## Graves' Disease

**Palatinoid No. 3211, O.S. & Co.** with **Pulverette 'Alphidine,' O.S. & Co.**

Pancreatin, gr. 5.
One thrice daily, before meals

Equals Iodine, gr. ½.
One twice daily, between meals, on two or three days each week

For full particulars see B.M.J., Oct. 2nd, 1937, p. 660.

**Oppenheimer Son & Co. Ltd.**
**Handforth Laboratories, Clapham Road, LONDON, S.W.9**

# How many of your patients are Neurasthenic?

OUR own long experience has shown us the heavy toll of present-day conditions on the nervous system, and while every Doctor has his own preferred treatment, we have been convinced by the many hundreds of testimonials we receive, that our nerve food has definitely assisted in recovery of serious cases.

Test Bilson's yourself and note its effect on your nerves—tired after hours of concentration—and you will then recommend it to your patients.

Bilson's Nerve Food is rich in organic calcium, sodium, phosphorus and iron. It is a valuable health builder and tonic for brain workers, and beneficial for growing children.

# BILSON'S NERVE FOOD

T. J. BILSON & CO.
PURE FOOD SPECIALISTS
19 GRAY'S INN ROAD, LONDON, W.C.1
Telephone: Holborn 4710

Is stocked by leading chemists and health food stores. . . . We shall be pleased to send a professional sample on request.

THYMINIC ACID BASE

URALYSOL

TRADE MARK

**FORMULA**

| | |
|---|---|
| Thyminic Acid .. .. | 0·10 |
| Hexamethylenetetramine Anhydromethylenecitrate | 0·50 |
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| Sodium Benzoate .. | 1·00 |
| Effervescent Base .. | ad 100 |

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*BRAND SILVER VITELLIN*

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Sole Distributors:

**FASSETT & JOHNSON, LTD.,**

**86, Clerkenwell Road, London, E.C.1.**

THERE IS ONE AND ONLY ONE "ARGYROL," MADE ONLY BY: A. C. BARNES COMPANY. SOLE MAKERS OF ARGYROL AND OVOFERRIN

# A + B + C + D

**4 vitamins needed for healthy development**

'Nestrovite' is a well-balanced preparation containing vitamins A, $B_1$, C and D in definitely stated international units. It is recommended for aiding the growth of infants and developing children; for convalescence; for gastro-intestinal disorders; during pregnancy and lactation; and for combating lowered vitality in the Winter and Spring. The pleasant flavour will induce children as well as adults to take it regularly.

*'Nestrovite' Tablets in boxes of 20 and 100. Emulsion in bottles of 4½ fl. ozs.*

# NESTROVITE

Trade Mark *Vitamin Tablets and Emulsion.* Brand

Distributors: Roche Products Limited, Welwyn Garden City, Herts.

**ROCHE**

# IODOLYSIN

is a chemical compound containing 47% of iodine and 43% of thiosinamine, and gives really satisfactory results in a large percentage of cases of rheumatoid arthritis and allied conditions.

*"The Most Satisfactory Treatment."*

"Dear Sirs,
"Very many thanks for the sample of Iodolysin Capsules. The patient to whom I gave them felt considerable improvement in her joint condition, and is now taking them regularly. I have found them the most satisfactory treatment for arthritic cases and have had numerous successful results.
Yours faithfully,
"———, M.B."

*For Hypodermic Injection* **Azoule Iodolysin**

*For Oral Administration* **Kapsol Iodolysin**

*For Local Application* **Iodolysin Ointment**

**Literature and clinical sample will be sent post free on application.**

**ALLEN & HANBURYS LTD. LONDON E·2**

Telephone: Bishopsgate 3201 (12 lines) Telegrams: "Greenburys Beth London"

# B.D.H. COMMON COLD VACCINES

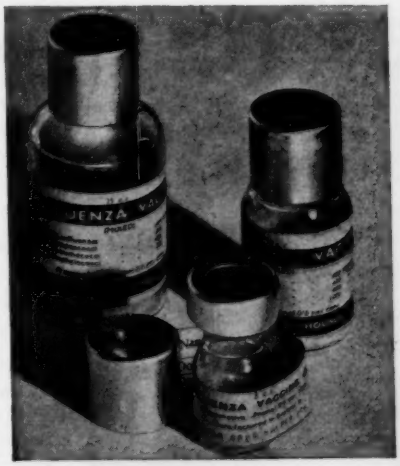
While there is at present no vaccine available against the virus primarily responsible for the common cold, the B.D.H. Common Cold Vaccines are potent in diminishing the activity of the secondary invaders. Three such B.D.H. vaccines are available:

B.D.H. Common Cold Vaccine (Anticatarrhal)
B.D.H. Influenza Vaccine (Mixed)
B.D.H. Influenza Vaccine (British Army Formula)

*Samples and literature on request*

THE BRITISH DRUG HOUSES LTD.
LONDON N.1

Telephone: Clerkenwell 3000
Telegrams: Tetradome Telex London



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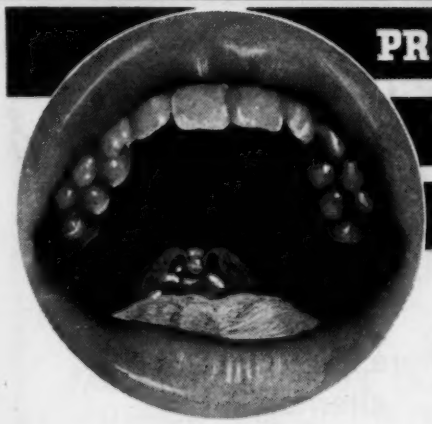

*A Physician's sample of T.C.P. Antiseptic and literature will gladly be sent on request.*

# PROPHYLAXIS OF COMMON WINTER RESPIRATORY INFECTIONS ☆ ☆ ☆

Antiseptic gargles and sprays have an important place in the prevention of colds, tonsillitis and other winter ailments. But, for optimum efficiency, the antiseptic used must have certain "plus" features, in addition to high bactericidal properties. T.C.P. is an ideal antiseptic for this purpose, because it has so many of these "plus" characteristics. Chief among them are *stability* — the maintenance of germicidal efficiency in the presence of organic matter, saliva, blood, pus, etc.; *safety*—T.C.P. is neither irritant nor caustic; *penetrative power*—for the relief of congestion and the stimulation of capillary circulation and phagocytosis; and *analgesic action*—invaluable in painful throat conditions.

**FOR ROUTINE PROPHYLACTIC GARGLING *PRESCRIBE***

**BRITISH ALKALOIDS LTD.**
**DASHWOOD HOUSE, LONDON, E.C.2**

**T.C.P.** REGD. THE *plus* ANTISEPTIC

# ANGIOXYL

TRADE MARK BRAND

## Insulin-Free Pancreatic Extract

**AMPOULES.**
ANGINA PECTORIS
VASCULAR SPASMS
2 to 3 ampoules daily.

**SYRUP.**
VASCULAR TROUBLES OF OLD AGE AND MENOPAUSE
1 bottle a month.

FULL PARTICULARS FROM

**ROUSSEL LABORATORIES LTD**

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ANTIGEN LABORATORIES,
95, Great Portland Street, London, W.1

36, Cavendish Square, London, W.1
*Telephone: Mayfair 8695*

*Milk can be monotonous*

to the patient who is on a liquid diet, as the medical practitioner well knows.

There is a delicious alternative!

# Allenburys Diet

A preparation which, made from full-cream milk and whole wheat, has a more varied composition than that of milk, is made easily assimilable by partial digestion during manufacture, and has an attractive flavour. This delicate flavour may be varied by the addition of Coffee, Cocoa, etc., if required. **In tins at 2/1, 4/-, & 7/6**

**ALLEN & HANBURYS LTD., London, E. 2** Telephone: Bishopsgate 3201 (12 lines) Telegrams: "Greenburys Beth London"

# MARMITE

YEAST EXTRACT
for vitamin B complex
**in POLYNEURITIS**

The close connection between polyneuritis and vitamin $B_1$ deficiency is well known. Not only is the polyneuritis of beri-beri considered to be due to deficiency of this factor, but so also is the polyneuritis associated with gastro-intestinal lesions, pregnancy, alcoholism and other toxic conditions.

Clinical tests have proved beyond doubt that Marmite therapy is effective in these cases of polyneuritis of nutritional origin. In a recent paper on peripheral neuritis, associated with pyloric stenosis and deficiency of vitamin $B_1$, it is recorded that the patient

***" was advised to take Marmite, 2 drachms daily . . . made a gradual improvement and returned to work . . . still takes Marmite. . . ."***
(Lancet, May 7th, 1938, p. 1045.)

Sample and literature on request

**THE MARMITE FOOD EXTRACT CO. LTD., 35, Seething Lane, London, E.C.3**

Jars: 1-oz. 6d., 2-oz. 10d., 4-oz. 1s. 6d., 8-oz. 2s. 6d., 16-oz. 4s. 6d. Special terms for packs for hospitals and welfare centres.
3810

GLANOID

# GONADOTROPIC
## (MATURITY) FACTORS

THE PREPARATION OF GLANOID GONADOTROPIC (MATURITY) FACTORS SUPPLIES THE TRUE GONADOTROPIC PRINCIPLES OF THE ANTERIOR LOBE OF THE PITUITARY GLAND.

STANDARDISED PHYSIOLOGICALLY, THE ASSAYED POTENCY OF THE GONADOTROPIC (MATURITY) FACTORS IS 300 UNITS PER C.C.

SUPPLIED IN 5 c.c. RUBBER CAPPED VIALS FOR INTRAMUSCULAR INJECTION.

*Write for Literature to:—* THE **Armour Laboratories** (ARMOUR AND COMPANY, LTD.)

Telephone: NATIONAL 2424

ARMOUR HOUSE • ST. MARTINS-LE-GRAND • LONDON • E.C.1

Telegrams: "ARMOSATA-CENT" LONDON

NAPP
CLASSICAL ETHICAL PRODUCTS

**FERRO-HEPAMULT**

Active Liver Principles
with active Iron
Standardized
Palatable
Economical

*A British made "NORGINE" Product*

**MANDECAL**

(Compound Calcium Mandelate B.D.H.)

*In the treatment of urinary infections*

The superiority of Mandecal over other mandelic acid preparations prescribed in the treatment of urinary infections lies in the fact that, whilst it is equally effective therapeutically, its administration causes less irritation to the gastric mucosa and eliminates the nausea so frequently associated with this form of therapy.

Furthermore, Mandecal is simple of administration; being miscible with water it is readily taken in a draught.

*Sample and literature on request*

THE BRITISH DRUG HOUSES LTD.
LONDON N.1

Telephone: Clerkenwell 3000
Telegrams: Tetradome Telex London

Mncl/S/13

Cadburys have perfected a

SPECIAL CHOCOLATE

which is Sugar Free and therefore a suitable addition to the dietary of diabetics

This chocolate is extremely palatable, and because Cadburys have unlimited facilities for laboratory research and the subsequent manufacture and marketing of such a product it sells at a very low price. Further details and analysis with a sample of this Special Chocolate will be gladly forwarded to anyone interested. Please write to Cadburys Laboratories, Bournville.

CADBURY BROS. BOURNVILLE ENGLAND

# "ALOCOL"

*Colloidal Hydroxide of Aluminium*

## Effective in Nervous Dyspepsia

WHATEVER be the fundamental cause of nervous dyspepsia, it is acknowledged that alleviation of the gastric symptoms is an important part of effective treatment.

Nervous dyspepsia connotes hypersecretion. This causes flatulence, sour stomach, discomfort and perhaps pain. "Alocol" is the ideal gastric sedative since its action is prompt and lasting and entirely free from harmful effects.

"Alocol" acts by adsorbing excess of free hydrochloric acid in the stomach, forming a colloidal jelly which passes through into the intestines and is finally evacuated. "Alocol," therefore, actually removes from the system the causative radicle (Cl) instead of merely temporarily neutralizing it. "Alocol" does not interfere with normal digestion, nor does it determine any unpleasant secondary reactions. It is issued in tablet and powder form.

*Complete chemical history of "Alocol," with convincing clinical reports and supply for trial, sent free to physicians on request.*

A. WANDER, LTD., Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
*Works and Laboratories:*
*KING'S LANGLEY, HERTFORDSHIRE.*

*Indian Saraswati playing the Vina. (12th Century.)*

M283

# ALASIL

## Safe Salicylate Therapy

THE popularity of acetyl-salicylic acid is undoubtedly due to the fact that it is one of the safest and most effective non-narcotic analgesics available. Too often, however, its use has been discarded by the physician on account of its tendency to irritate the stomach and because entirely pure preparations are not always available.

"Alasil" provides the beneficial therapeutic effects of pure acetyl-salicylic acid in such a form that it is acceptable even by disordered digestions. This tolerability is due to the fact that it combines calcium acetyl-salicylate—the least irritating salicylate compound—with "Alocol," a potent gastric sedative and antacid.

Since "Alasil" is better tolerated than acetyl-salicylic acid its use can be pushed or prolonged to a much greater extent than the latter. "Alasil" is, therefore, an analgesic, antipyretic, and anti-rheumatic, which can be employed with complete confidence in all the many conditions in which such an agent is indicated.

*A supply for clinical trial with full descriptive literature sent free on request:*

A. WANDER, Ltd., Manufacturing Chemists,
184, QUEEN'S GATE, LONDON, S.W.7.

M267

# A thorough investigation

*(reported in "The Analyst," 1936, Lxi, 310.)*

# could find no tea on the market which was free from tannin

*The following facts about tea and tea tannin have been established by recent clinical and laboratory experiment:—*

[A] Tea as normally drunk is harmless and has no ill effects whatever on the human body. The amount of caffeine and tea tannin in tea is pharmacologically small.

[B] Tea tannin is a different substance from the tannic acid of the Pharmacopœia, which is a Pyrogallic tannin, and the two should not be confused.

[C] Clinical experiments have shown that the action of tea tannin is very much milder than that of tannic acid, and the different composition of the two tannins is proved by the fact that the tannic acid of the Pharmacopœia is about 25 times stronger as an acid than tea tannin.

[D] Many common beverages besides tea contain similar tannins and in comparable amounts.

[E] If there were any teas completely free from tannin, they would be almost entirely tasteless.

ISSUED BY THE INTERNATIONAL TEA MARKET EXPANSION BOARD LTD

# Mouth and Throat Therapy.

AS A PROPHYLACTIC MEASURE IN EPIDEMICS, AND FOR USE IN THE TREATMENT OF SEPTIC CONDITIONS OF THE MOUTH AND THROAT, THE VALUE OF A SUITABLE LOCAL APPLICATION IS FIRMLY ESTABLISHED.

EXHAUSTIVE BACTERIOLOGICAL TESTS AND CLINICAL TRIALS CARRIED OUT OVER A NUMBER OF YEARS DEMONSTRATE THAT "FORMITROL" PASTILLES MEET THE DESIRED NEED IN A SATISFACTORY MANNER.

# "FORMITROL"

BRAND

## Formalin Pastilles.

THE FOLLOWING ARE A FEW OF THE CHIEF ADVANTAGES THEY POSSESS:—

1. "Formitrol" Pastilles dissolve slowly and uniformly in the mouth; this ensures prolonged and continuous effect of the active ingredient—Nascent Formaldehyde.
2. "Formitrol" Pastilles exercise a marked bactericidal action without irritating the mucous membrane.
3. "Formitrol" Pastilles bear surface grooves, which permit the administration of small doses to children.
4. "Formitrol" Pastilles are metallic sheathed; evaporation is thus prevented and full activity of the products can always be relied upon.

Issued in neat containers for the pocket, and supplied by all Pharmacists at 1/6 per Box

**A Physician's Trial Sample will be sent Free on Application.**

## A. Wander Ltd., 184, Queen's Gate, London, S.W.7.

**Works: King's Langley, Hertfordshire.**

M.139

# THE ADVANTAGES OF COD LIVER OIL
## as a source of
## VITAMIN A and VITAMIN D

**In view of the widely varying vitamin content of many liver oils available to the public, it is interesting to note that the British Pharmacopœia in their most recent Addendum (1936) lay down a definite standard of vitamin content for cod liver oil, and also a definite dosage.**

The vitamin content is standardised at not less than 600 International Units of Vitamin A and not less than 85 International Units of Vitamin D per gramme; and the dosage is given as a minimum of 15 minims (a quarter teaspoonful) three times a day. The oil itself is described as "from the fresh liver of the cod."

'SevenSeaS' Cod Liver Oil is extracted on the boat, within thirty minutes of the fish being taken from the sea. It is therefore fresh and easily digested. It is an interesting point of fact that the process of extraction on the boat is impossible with other fish liver oils. 'SevenSeaS' therefore obviates any need to resort to liver oils made from stale and rancid livers.

In its standard form, 'SevenSeaS' is guaranteed to conform to the standard vitamin content laid down by the British Pharmacopœia. For practitioners wishing to administer Vitamin A and Vitamin D in cases where a large fat intake is contra-indicated, 'SevenSeaS' in its 'High Potency' form has a special significance. The vitamin content of this 'High Potency' oil is guaranteed to be four times the Pharmacopœia standard, and the dosage can therefore be reduced to a few drops only. This is not a fortified oil, but is obtained simply by selection from the oils of the richest livers.

All 'SevenSeaS' Cod Liver Oil is tested and packed in strict conformity with British Pharmacopœia requirements. Samples of the High Potency Oil, the Standard Oil, and the High Potency Oil in Capsules, will be supplied on request.

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD. · ST. ANDREW'S DOCK · HULL · ENGLAND

# M & B 693

2-sulphanilyl-aminopyridine

is *now available* for use in the treatment of

# PNEUMOCOCCAL INFECTIONS

M & B 693 is supplied in containers of 25 tablets at 7/6, and in containers of 100 tablets at 28/-. *Subject to the usual professional discounts.*

Information on request

MEDICAL DEPARTMENT

**PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD., DAGENHAM**

# HORMOTONE "T"

**makes available the therapeutic effect of standardised follicular hormones by oral administration, combined with the well-known Hormotone endocrine formula. Each tablet contains ovarian follicular hormones therapeutically equivalent to 200 units (international assay). It is Enterosol Coated to prevent any destructive action of the digestive processes of the stomach.**

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**IRREGULAR MENSTRUATION**

BOTTLES OF 40 TABLETS

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# ALKA-ZANE
## for Systemic Alkalization

A palatable, granular, effervescent salt for the treatment of acidosis.

A combination of sodium, potassium, calcium and magnesium, in the form of carbonates, phosphates and citrates — no tartrates, sulphates or lactates, and no sodium chloride.

For acidosis in fevers, influenza, nephritis, cardiac disease, pregnancy, diabetes, cyclical vomiting, acidosis associated with anæsthesia, tetany, rheumatic conditions.

One heaped teaspoonful, three or four times daily in a glass of water, is an efficient, refreshing neutralizer of excessive local or systemic acidity. After effervescence has subsided milk or fruit juices may be added, if preferred.

A liberal supply for clinical trial sent on request

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MADE IN ENGLAND

# Pediatrists approve these purées

## *A range of Strained Foods giving maximum nutritive values*

THE nutritional value of vegetable purées for infants and soft diet cases is receiving the endorsement of the medical profession to a very marked degree.

Hitherto the difficulties and deficiencies of home preparation—inefficient sieving and destructive oxidation—not to mention the tedium and labour involved—have hindered practical application, but the introduction of a complete range of strained foods by H. J. Heinz Co. Ltd. has been universally accepted as the solution of this problem.

H. J. Heinz Co. Ltd., with their exceptional experience in food preparation, have recognised the legitimate possibilities of supplying strained foods of that maximum nutritive value, uniformity and convenience which only good factory practice can achieve.

The vegetable and fruit purées of H. J. Heinz Co. Ltd. are prepared under conditions of the most scrupulous care with special reference to minimising mechanical loss of mineral salts and other soluble nutriments. The edible portions are washed and trimmed and then cooked under light steam pressure until in perfect disposition for comminution by extrusion and cutting. All mineral salts, vitamins and other soluble nutriments are retained, while harsher fibres, if any, are so reduced as to be non-irritant. The raw materials are purchased when and where seasonal and regional conditions of growth are most favourable, and only fresh gathered vegetables of the highest quality are used.

After the straining process the purée is adjusted to a proper solid content convenient for marketing. Absorbed air is removed and sealing *in vacuo* follows in specially prepared enamel-lined containers. The process concludes with high-temperature sterilisation.

| | |
|---|---|
| PROTEIN | 4·8 |
| CARBOHYDRATES | 6·8 |
| CALCIUM | 0·012 |
| PHOSPHORUS | 0·083 |
| IRON | 0·0016 |
| VITAMIN A. | GOOD |
| VITAMIN B. | V.GOOD |
| VITAMIN C. | V.GOOD |
| VITAMIN G. | FAIR |
| CALORIES PER OZ. | 17·0 |

*A typical example of the high nutritive values retained in Heinz Strained Foods. (Figures show percentages on the wet basis)*

*NOTE: Glass containers are not used owing to the deteriorating effect of light on vitamin content and on the palatability of the products.*

# HEINZ STRAINED FOODS

SPINACH
TOMATOES
CARROTS
VEGETABLE SOUP
PEAS
GREEN BEANS
MIXED GREENS
BEETS
PRUNES
CEREAL
APRICOTS AND APPLE SAUCE
BEEF & LIVER SOUP

★ ***Fully explanatory literature and samples gladly sent on request.***

H. J. HEINZ COMPANY LIMITED, HARLESDEN, LONDON, N.W.10

INDICATIONS FOR 'SANATOGEN'. No. 7

# ARTERIO-SCLEROSIS and HYPERTENSION

## *"Room for Scepticism"*

There is room for scepticism as to the causative relation between the stress and rush of modern life and high blood-pressure.

Examination of mummies has shown that arterio-sclerosis was common even in ancient Egypt, and it was recently pointed out in a medical journal that " the active goat and the horse have little arterio-sclerosis, while the placid cow and the phlegmatic duck are especially susceptible ".

That food-intake is important both in the prevention and in the treatment of hypertension is, however, generally agreed. Purins, toxins and excessive food residues in the colon are all to be suspected and avoided.

In the dietetic treatment of high blood-pressure, 'Sanatogen', a carbohydrate-free product of 95 per cent. pure milk casein *with* 5 per cent. sodium glycerophosphate, has been found of great service. Its nutritive value is high.

**BLOOD PRESSURE**

"I have been very interested in the effects produced by 'Sanatogen' in a case of high blood-pressure. The patient, a young woman, was put on a restricted diet for high blood-pressure, and used to find that in the middle of the morning and after putting her little boy to bed, she had a feeling of extreme weakness and was often forced to sit or lie down for some time before she could do anything else. She started taking 'Sanatogen' twice a day, and after a short period noticed that this feeling was not making its appearance, and she has never had it again as she is still continuing with the 'Sanatogen'. She is also very much improved in health, and seems to have much more reserve energy now. The only alteration in diet has been the addition of 'Sanatogen'."

——*M.B., Ch.B.*

NO TOXINS · NO PURINS · NO RESIDUE
NO ABNORMAL FERMENTATION

# 'SANATOGEN'

*(Trade Mark)*

*A brand of Casein and Sodium Glycerophosphate*

*Sold by all chemists price 2/3 to 19/9*

DOSAGE: For children and adults two teaspoonsful three times daily, or according to circumstances. For infants ½ teaspoonful added to each bottle feed.

The word 'SANATOGEN' is the Trade Mark of Genatosan Ltd., and denotes their famous brand of Casein and Sodium Glycerophosphate.
A 'GENATOSAN' product made by GENATOSAN Ltd., Loughborough, Leicestershire.

***Clinical samples and literature available on request to***

**GENATOSAN LTD., LOUGHBOROUGH, LEICESTERSHIRE**

# *Diphtheria*

GLOBULIN *Lederle* MODIFIED

## ANTITOXIN

THE GLOBULIN-MODIFIED *Lederle* technique, embodying the principle of peptic digestion, is the only practical procedure which permits such a high degree of concentration of antitoxin and reduction in the amount of troublesome proteins—the cause of serum reactions.

That is why Globulin Modified Antitoxins *Lederle* represent

- *a reduction in the expected incidence and severity of serum disease;*
- *less inconvenience to the patient;*
- *a greater ease of administration;*
- *a greater potency per c.c.*

DIPHTHERIA ANTITOXIN *Lederle* as prepared by the Globulin Modified Technique contains 6,000 to 7,000 units per c.c., except in the lower unitages where the volume is adjusted to facilitate ease of handling. A concentration which we believe has never been previously attained with commercially available antitoxins.

Since Diphtheria Antitoxin absorbs circulating toxins and checks the further spread of the toxæmia, prognosis is largely dictated by the promptness by which adequate dosage is injected and the route by which it is given.

The improved and refined *Lederle* product permits of the administration of large dosage in small bulk by the intravenous route without the fear of untoward reactions.

A PRODUCT OF THE
*Lederle* LABORATORIES
INC. NEW YORK
*Distributed in England by*

Chas. F. Thackray LTD

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*Telegrams and Cables* "Asseptic Leeds" *Telephone* 20085 (3 lines)
252, Regent Street **LONDON W 1**
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# Seal of Quality

## SYRUP. AMMONII MANDELAT. (HEWLETT'S)

An elegant preparation of Ammonium Mandelate in the form of a sweetened, orange-flavoured syrup.

Two fluid drachms contains three grammes of Mandelic Acid as the Ammonium salt. An efficient treatment for cases of Urinary Infection. No Ammonium Chloride or other additional drug is necessary in normal cases. May be given at all ages.

*Dose for Adults.*—Two teaspoonfuls four times daily with a little water.
Circular with full particulars free on application.

## LIN. BETULÆ CO. (HEWLETT'S)

Therapeutically equivalent to several times its weight of Sodium Salicylate without causing headache, tinnitus, &c. Has proved most useful in the external treatment of pure Rheumatism, Sciatica, Lumbago, &c. The external dose is about one drachm rubbed over the affected parts.

In 5, 10, 22, 40, and 90 oz. Bottles.

## MIST. PRUNI VIRG. CONC. (HEWLETT'S)

A valuable stimulant and expectorant cough mixture, containing Carbonate of Ammonium, Ipecacuanha, Senega, Squill, and Syrup of Wild Cherry Bark. Quite free from Morphine, Opium, or poisons, so can be safely administered to children.

*Dose:* 1 to 2 drachms diluted.
In 22, 40, and 90 oz. Bottles only.

## UNG. IODERMIOL TRADE MARK

It has been found most useful for Enlarged Glands, Rheumatic and Gouty Affections, Lumbago, Sciatica, Swollen and Stiff Joints, Skin Diseases, &c.

### UNGUENTUM IODERMIOL et METHYL SALICYL. (HEWLETT'S)

Containing about 5% of Iodine, in a stainless non-irritating form, together with 5% Methyl Salicylate. Useful in the treatment of Enlarged Joints, Synovitis, Rheumatoid Affections, &c.

## VERONIGEN TRADE MARK

A liquid preparation of the Hypnotic Barbitone or Diethyl-Barbituric Acid has long been desired as a useful means of procuring sleep. When given in reasonable doses it is claimed that it does not produce any toxic symptoms whatever, and in ordinary cases of insomnia one fluid drachm of Veronigen is quite sufficient dose for an adult.

*Dose for Adults.*—One fluid drachm diluted, about one hour before going to bed.
*For Nervous Sleeplessness in Children.*—10 to 20 minims diluted.

## MIST. TUSSI RUB. CONC. (HEWLETT'S)

A favourite and economical cough mixture, containing Hydrobromic Acid, Chlorodyne, Dilute Hydrocyanic Acid, &c. Most successful in allaying post-influenza coughs that are so persistent. One or two ounces diluted with water to make eight ounces forms one of the most effective and elegant mixtures that can be made, and certainly the least expensive.

In 22 oz., 40 oz., 4½ lb., and 8 lb. Bottles only.

**C. J. HEWLETT & SON, LTD., 35 to 42, Charlotte Rd., LONDON, E.C.2**

**Telegraphic Address: "PEPSINE, FINSQUARE, LONDON." Telephones: BISHOPSGATE 1172 & 1173**

*After* The First Step
*by S. F. Pelee*

*Vitamins* A, $B_1$, $B_2$ *and* D
*Calcium and Phosphorus*
*Liver and Malt Extracts*

# IN ONE PALATABLE PRODUCT

ABBOTT'S HALIVER MALT with Viosterol is biologically standardised for vitamins A, $B_1$, $B_2$ and D. Each teaspoonful is equivalent in vitamin A potency to at least one teaspoonful of high grade cod-liver oil; in vitamin D potency to five drops of Viosterol in Oil. In vitamins $B_1$ and $B_2$, three teaspoonsful are equivalent to at least one cake of moist, compressed yeast. The liver extract in this preparation is a standardised extract and contains the necessary factors for the production of mature red blood corpuscles. The pure barley malt extract supplies diastase and a number of valuable nutritive substances. ● Each fluid ounce of Haliver Malt with Viosterol contains not less than: 27,000 International units of vitamin A; 50 International units of vitamin $B_1$; 50 Sherman units of vitamin $B_2$; 7,000 International units of vitamin D; the equivalent of 5 grs. of mono-calcium phosphate; and the equivalent of ½ oz. of fresh, mammalian liver. ● Because the vitamin A and D content of this product is supplied by Haliver Oil (halibut-liver oil, Abbott) and Viosterol, *Haliver Malt with Viosterol is entirely free from the disagreeable "fishy" taste to which so many patients object in malt preparations containing cod-liver oil.* ● Abbott's Haliver Malt with Viosterol is supplied through pharmacies in 8-ounce and 32-ounce bottles. Requests for professional literature are invited.

**ABBOTT LABORATORIES (*ENGLAND*) LTD.**
**Wadsworth Road, Perivale, Middlesex**

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SHANGHAI NEW YORK CHICAGO MEXICO CITY
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*Abbott's*
# HALIVER MALT
BRAND
*with Viosterol*

Please send literature on Abbott's Haliver Malt with Viosterol to

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LANCET-16

# NEO-HEPATEX

**(parenteral)**

**The fractionated Liver Extract with remarkable hæmopoietic power**

**Clinically tested on suitable cases of Pernicious Anæmia**

The methods used in its preparation prevent inactivation during manufacture and ensure constancy in therapeutic effect.

Being completely non-toxic the dosage can safely be increased when septic or febrile conditions exist.

The combined advantages of high potency and low price render Neo-Hepatex very economical in cost.

**Issued in Ampoules**

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| Boxes of 6×1 cc. | - | 5/3 |
| „ 6×2 cc. | - | 8/- |
| „ 3×4 cc. | - | 7/- |

Made at

**The Evans Biological Institute**

**Evans Sons Lescher & Webb Ltd.**
**Liverpool and London**

# VOLPAR

Volpar is the new contraceptive which has been formulated in co-operation with the medical Sub-Committee of The National Birth Control Association; it is the outcome of nearly ten years' continuous investigation conducted by University research workers under the direction of the Birth Control Investigation Committee.

Laboratory tests have shown that the active principle of Volpar is the most powerful non-toxic spermicidal substance known.

An article reporting the results of the above-mentioned investigation was published in The Lancet of October 15th, 1938, p. 882, and a letter signed by the medical members of the Birth Control Investigation Committee commenting upon this article has also appeared (Lancet, October 22nd, 1938, p. 970).

Volpar is issued in two forms:—

**VOLPAR GELS**

Soluble suppositories primarily intended for use alone, or (for maximum safety) with a cap or sheath.

**VOLPAR PASTE**

A non-greasy paste for lubrication of occlusive caps and sheaths or condoms.

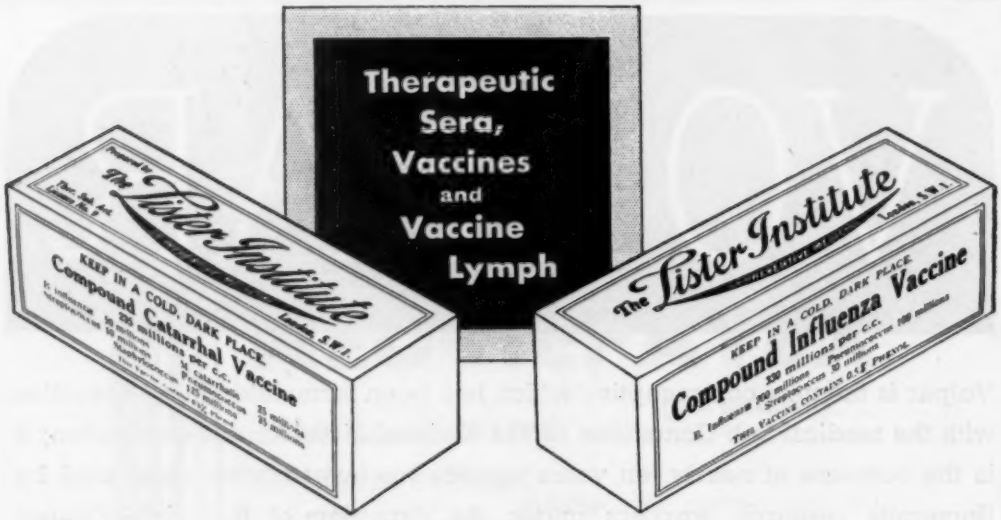
Volpar Gels and Volpar Paste are sold only by pharmacists at the following prices (applicable to Great Britain only):

**GELS:** in screw-capped glass tubes containing 1 dozen gels, **2s. 0d.**

**PASTE:** in collapsible tubes containing sufficient for 12 applications, **2s. 0d.**

*Literature on request*

**THE BRITISH DRUG HOUSES LTD. LONDON N.1**




# The Lister Institute
OF PREVENTIVE MEDICINE

## Compound Catarrhal Vaccine

In catarrhal conditions of the respiratory passages mixed infections are found more often than pure infections with one type of organism. *Bacillus influenzæ*, Pneumococcus, and *Micrococcus catarrhalis* are believed to be the commonest primarily infecting organisms, but Streptococcus and Staphylococcus seem to be responsible for many of the secondary infections. A mixed vaccine has been prepared from these five kinds of bacteria. It is generally given as a prophylactic, but may also be used in acute respiratory infections.

DOSAGE.—Prophylaxis: 1st dose, 50 million *B. influenzæ*, 10 million *Streptococcus*, 25 million *M. catarrhalis*, 25 million *Pneumococcus*, 125 million *Staphylococcus* Subsequent doses at intervals of 7 to 10 days, gradually rising to 8 times the original dose. Then 4 to 8 times the initial dose every 4 to 8 weeks.

Treatment—$\frac{1}{10}$ to $\frac{1}{5}$ of the prophylactic doses.

PRICES—Ampoules containing
235 million organisms per c.c., each **2/6**
470 " " " " **2/6**
940 " " " " **2/6**
1,880 " " " " **2/6**
10 c.c. rubber-capped vials containing
470, 940 or 1880 million organisms per c.c., each **15/-**
25 c.c. ditto ditto, each **25/-**

## Compound Influenza Vaccine

The Compound Influenza Vaccine prepared by the Lister Institute contains the chief types of bacteria found in the catarrhal secretions of the respiratory passages in epidemic influenza, viz.: *B. influenzæ*, Pneumococcus, and Streptococcus. It is primarily intended as a prophylactic, but may also be used for treatment.

DOSAGE.—Prophylaxis: 1st Dose, *B. influenzæ* 200 million, Pneumococcus 100 million, Streptococcus 30 million = 330 million organisms; 2nd dose, 660 million organisms, 7 to 10 days later. In treatment 1/5th to 1/20th of the prophylactic doses may be given, commencing with the lower dose in severe cases.

**Compound Influenza Vaccine**

PRICES—
In ampoules of 1 c.c. containing 330 or 660 million organisms per c.c., each **2/6**
In 10 c.c. rubber-capped vials containing 660 million organisms per c.c., **15/-**
25 c.c. ditto ditto **25/-**

**Sole Distributors for the Lister Institute:**

# Allen & Hanburys Ltd.
**London, E.2**

# The nicest way of taking Halibut Liver Oil

HALIBORANGE presents Allenburys tasteless and odourless Halibut-Liver Oil, associated with additional vitamin D and Allenburys Orange Juice.

One teaspoonful of Haliborange is equivalent in vitamins A and D to one teaspoonful of cod-liver oil, and in vitamin C to two teaspoonfuls of fresh orange juice.

Haliborange is an excellent addition to the diet of babies as a precaution against rickets and scurvy. For older children, adolescents, or adults, it is a prophylactic vitamin tonic.

## Haliborange

**Contains the natural vitamins A, C, and D**

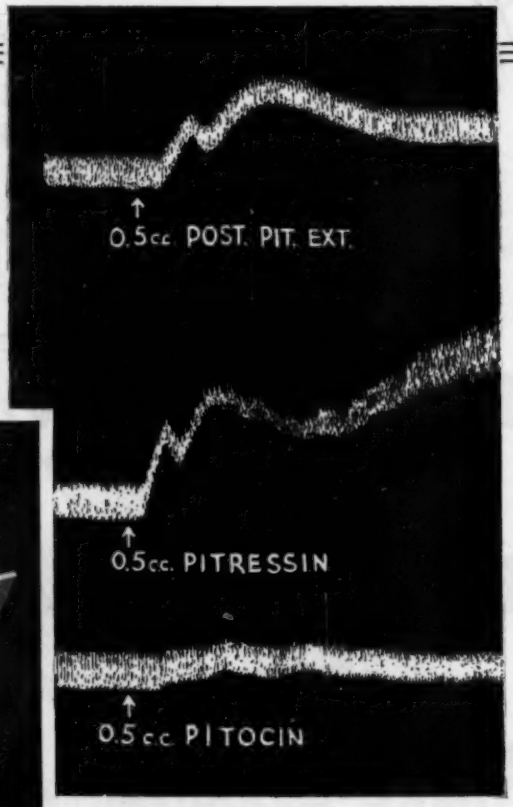
In 5, 10 and 40 oz. bottles.

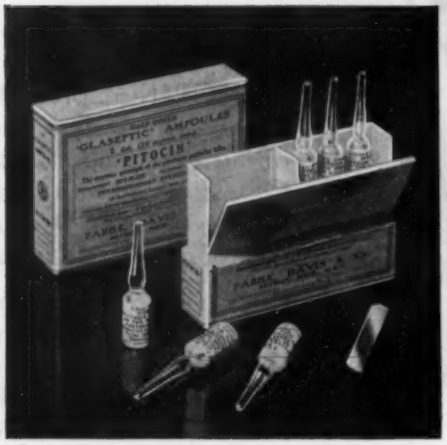
**DESCRIPTIVE LITERATURE WILL BE SENT ON REQUEST.**

## ALLEN & HANBURYS LTD., LONDON, E.2

Telephone: Bishopsgate 3201 (12 lines) Telegrams: "Greenburys Beth London"

THESE kymographic tracings illustrate one of the important therapeutic advantages of 'Pitocin'—the fact that its injection is not followed by a rise in blood-pressure. Blood-pressure tracings were made on an anæsthetized dog which was given all three preparations intravenously. Note that ordinary post-pituitary extract causes a marked rise in blood-pressure. This is due to its content of pressor hormone (clinically available in purified form as 'Pitressin') the blood-pressure-raising action of which is shown by the middle tracing. Note (lower tracing) that 'Pitocin' does not appreciably affect blood-pressure.




# 'PITOCIN'

*The Oxytocic Principle of the Posterior Pituitary Gland*

**TEN years ago 'Pitocin' was introduced to the medical profession. The development of 'Pitocin' made it possible for the first time to administer the posterior pituitary oxytocic hormone without any significant amount of pressor hormone—and with only a minimum of extraneous proteins. The clinical advantages of this product in hypertensive patients and in post-partum hæmorrhage were soon recognized. During the past ten years an increasing number of prominent obstetricians have adopted 'Pitocin' for routine use. They prefer it not only for cases of nephritis, eclampsia and pre-eclampsia, but for every obstetrical patient. Its exceptional purity, standardized potency, and general reliability make it the outstanding oxytocic preparation.**

● *Supplied in boxes of six and twelve ampoules of 0·5 c.c. and 1 c.c. Further details will be supplied on request.*

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*Laboratories: Hounslow, Middlesex.* *Inc. U.S.A., Liability Ltd.*

TRADE **'EMPIRIN'** MARK

(ACETYLSALICYLIC ACID)

# The Acetylsalicylic Acid of supreme quality

Its standard of purity is in excess of official requirements.

'EMPIRIN' is presented in 'TABLOID' 'EMPIRIN' Products. They may be prescribed with the confidence justified by accuracy and exceptional quality of content.

TRADE MARK **'TABLOID'** BRAND
TRADE **'EMPIRIN'** MARK

ACETYLSALICYLIC ACID

Gr. 5 (0·324 gm.)

Bottles of 25, **10***d.* per bottle
,, ,, 100, **2/6** ,, ,,

*London Prices to the Medical Profession*

*Also available:—*
0·5 gramme in bottles of 25 and 100 products

*Reduced facsimile*

TRADE MARK **'TABLOID'** BRAND
TRADE **'EMPIRIN'** MARK

(ACETYLSALICYLIC ACID)

**COMPOUND**

*Combines 'Empirin' with Phenacetin and Caffeine*

Bottles of 25, **1/3** per bottle
,, ,, 100, **3/9** ,, ,,

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TRADE MARK **'TABLOID'** BRAND **'EMPIRIN'** TRADE MARK (ACETYLSALICYLIC ACID)

**COMPOUND** WITH **CODEINE**

*Contains 'Empirin,' Phenacetin, Caffeine and Codeine Phosphate*

Bottles of 25, **1/8** per bottle
,, ,, 100, **5/5** ,, ,,

*London Prices to the Medical Profession*

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FOUR CALDEFERRUM TABLETS DAILY

*A new three-fold*
**PROTECTIVE** *routine*

The one plain purpose of Caldeferrum tablets is to guard against any significant deficiency of iron, calcium or vitamin D. The amounts supplied are deliberately limited to serve as a protective routine.

The first to benefit by the introduction of these important dietary factors, is, of course, the expectant mother. But such a combination is of nutritional importance in the many general instances in which intake of these three vital factors is below normal, and health below par. The simple routine of four Caldeferrum tablets a day can be carried out easily and economically by any class of patient.

PRODUCT OF THE GLAXO LABORATORIES

# CALDEFERRUM

*Bottle of 50 tablets, 2/6; 100, 4/3.*
*Prices (not applicable in Eire) are subject to usual professional discount*

GLAXO LABORATORIES LTD., GREENFORD, MIDDX. BYRon 3434

*The Appetising Four-Vitamin Malt Food*

# NUTRIENT PROTECTION

In a basis of good malt extract, appetisingly flavoured, Ostomalt provides four vitamins that a child needs — vitamins that are so often deficient in winter diets. Ostomalt provides vitamins A, B, D and also C — in balanced *standardised* form, together with a useful supplement of calcium glycerophosphate. Moreover, the easily digested malt extract of Ostomalt gives the 'body' to this preparation to make it substantial fuel for growing needs. Ostomalt is most economical in use, being three times as potent in vitamins A and D as the best malt-and-cod-liver-oil product. One *teaspoonful* takes the place of three *tablespoonfuls.*

PRODUCT OF THE GLAXO LABORATORIES

# OSTOMALT

In ¼-lb. jars, 1/9; in 1-lb. jars, 3/-; in 7-lb. jars, 17/-.
*Prices (not applicable in Eire), are subject to usual professional discount.*

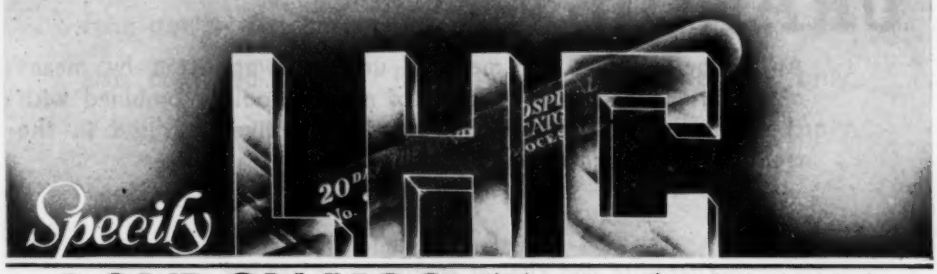
GLAXO LABORATORIES LTD., GREENFORD, MIDDX. BYRon 3434

# TRADITIONAL LONDON

SOUTH SEA HOUSE, THREADNEEDLE ST. H. BERNARD ROBINSON

The offices of the Company which blew the famous "bubble" in the early part of the 18th century, and caused great financial disaster throughout the country.
The origin of the name of Threadneedle Street is obscure, and it has been conjectured that it had reference to the Arms of the Needlemakers Company in which three needles figure.

London Hospital Catgut has no less fine traditions behind its development to a leading place in the esteem of Surgeons the world over. It is a product of scientific research, made throughout at the London Hospital under licence of the Ministry of Health.




# LONDON HOSPITAL CATGUT

OBTAINABLE FROM ALL LEADING SURGICAL EQUIPMENT HOUSES

L.H.C.7

NEW PRODUCTS

# IODAMELIS

An organic combination of Iodine and Hamamelidin which is exceptionally well tolerated and does not give rise to iodism. Iodamelis improves circulation, removes congestion, reduces arterial pressure and accelerates general nutritional processes.

*Supplied in bottles of 25 c.c. with dropper.*

# PANTAVENE

A natural neuro-muscular tonic containing the active principles of Oats (avena sativa). Pantavene restores normal vitality and well-being and is specially indicated in muscular and nervous asthenia, debilitated states, hypotension, melancholic depression.

*Supplied in boxes of 60 Tablets.*

# THIONAIODINE

A complex Iodine-Sulphur-Magnesium combination which, by injection, exhibits an antalgic, anti-rheumatic and neuro-sedative action in the treatment of all forms of rheumatism, in neuritis, sciatica, arthritis, lumbago.

*For Intramuscular Injection, Ampoules A, 5 c.c. and 10 c.c.*
*For Intravenous Injection, Ampoules B, 10 c.c. and 20 c.c.*

# URANDIL

An Iodine-Uranium Ointment of unique composition by means of which the penetrative action of nascent Iodine combined with the radio-activity of Uranium can be effectively utilised in the treatment of Dermatoses.

*Supplied in tubes of 1 oz.*

*Literature and clinical specimens on request*

THE ANGLO-FRENCH DRUG CO., LTD.,
11 & 12, GUILFORD STREET, LONDON, W.C.1

TRADE MARK **'Merthiolate'** BRAND

*Sodium Ethyl Mercuri Thiosalicylate*

**An antiseptic of outstanding usefulness in surgery and for first-aid treatment.**

**The intact skin may readily be prepared for operation by application of the Tincture. Traumatized tissues are disinfected by the Solution without appreciable damage to cellular elements. Both preparations of 'Merthiolate' are of a very low order of toxicity, are stable in solution, and are of maximum dependability in their bacteriostatic and germicidal effects.**

**Tincture 'Merthiolate,' 1:1,000, and Solution 'Merthiolate,' 1:1,000, are supplied in four-ounce and sixteen-ounce bottles.**

**ELI LILLY AND COMPANY LIMITED**

2, 3 *and* 4, *Dean Street, London, W.*1

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# HOWARDS' ASPIRIN

Fine quality Aspirin at a reasonable price. In white and also coloured tablets for the Medical Profession only. Your usual Chemist or Wholesale House can supply.

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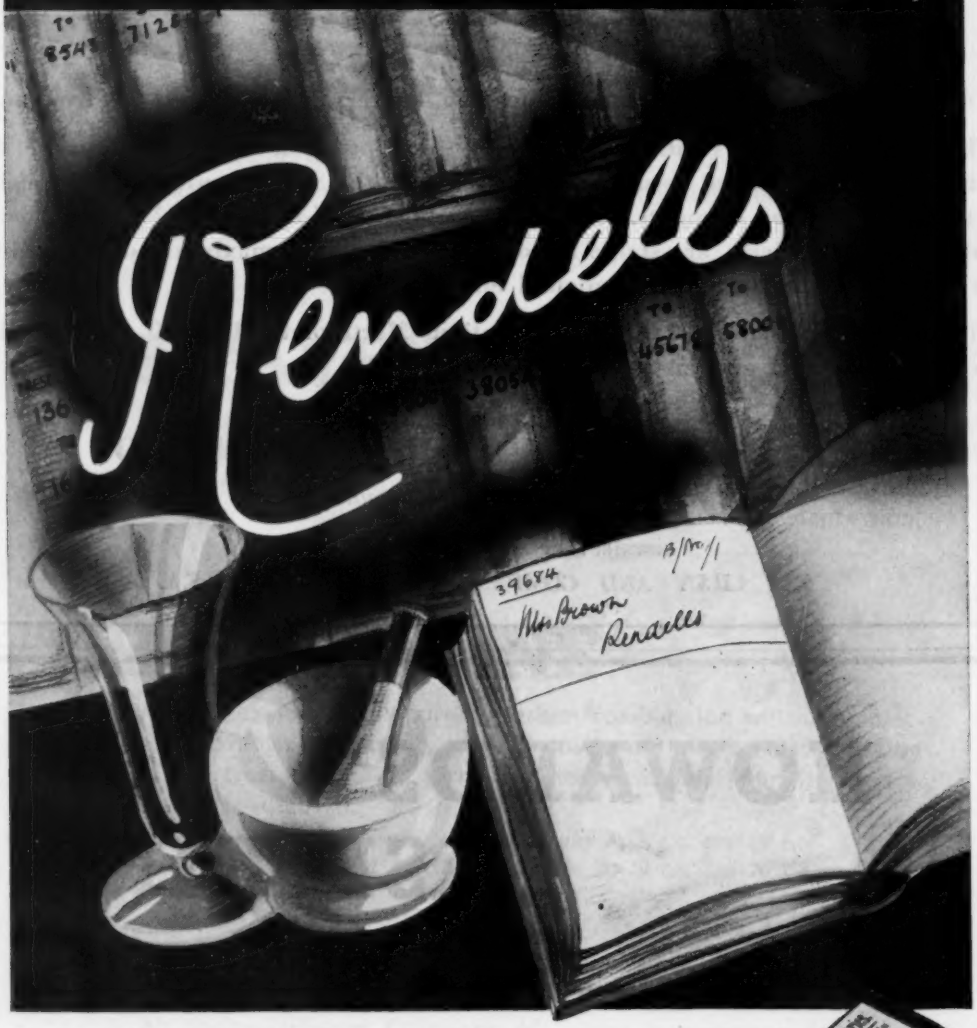


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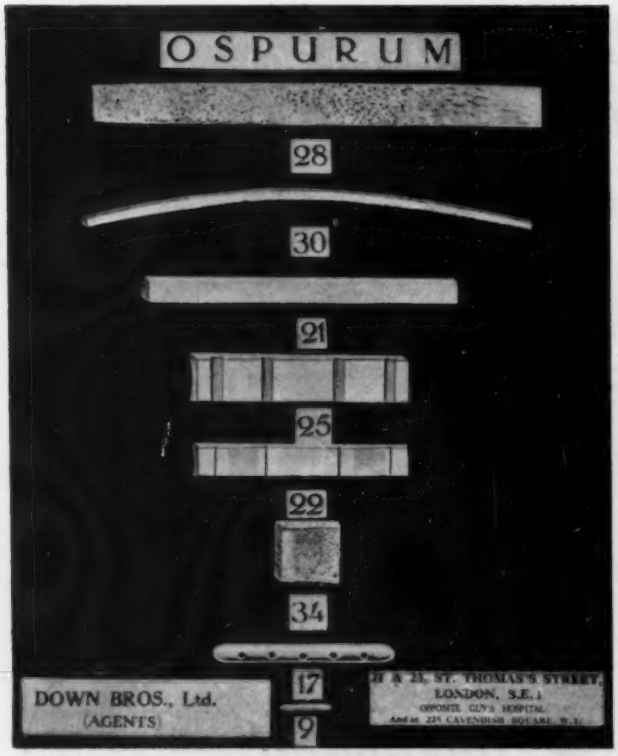


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This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

# STRETTON HOUSE,

Church Stretton, Shropshire.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

# CRICHTON ROYAL, DUMFRIES

## For NERVOUS AND MENTAL DISORDERS

This hospital has every facility for complete investigation of the above conditions, and provides all forms of modern treatment, including psychotherapy, physiotherapy, occupational and recreational therapy. Cases of alcoholism and drug addiction are admitted. The Physiotherapy Department has separate units fully equipped for X-ray work, heliotherapy, short-wave therapy, electro-therapy, and hydrotherapy (swimming bath, prolonged baths, Scotch and Vichy douches, Plombières treatment, electric and Turkish bath cabinets, etc.). There is a fully equipped gymnasium under qualified instructors. Facilities are provided under special recreational therapists for all indoor and outdoor games, including golf course, cricket, football and hockey grounds, lawn tennis and squash courts, croquet and bowling greens. The Hospital has its own Church, Library, Cinema and Hairdressing Saloon. Terms include regular motor drives. Private rooms, suites, or villas are available, and special nurses can be provided. The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens and orchards. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

*For prospectus, necessary forms, and further information apply to:—*

Physician Superintendent, **P. K. McCowan**, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119.

# TOR-NA-DEE SANATORIUM

## MURTLE, DEESIDE, ABERDEENSHIRE

### FOR THE DIAGNOSIS AND TREATMENT OF ALL FORMS OF TUBERCULOSIS

Managing Director: **DAVID LAWSON**, M.D., F.R.S.E.

Southern aspect. Low rainfall. Pure bracing air. Sheltered grounds. Beautiful surroundings. All modern equipment for diagnosis and treatment, including operating theatre. **No extra charge for X Rays, Artificial Pneumothorax, Ultra-Violet Light, or other special treatment.**

Day and night Nursing Staff. All bedrooms have central heating, electric light, hot and cold running water, and wireless (head-phones). Comfortable and airy public rooms.

Medical Superintendent: J. M. JOHNSTON, M.B., M.R.C.S., D.P.H. For terms and prospectus apply to the Secretary.

Telephone: Cults 107.

# NEW LODGE CLINIC,

## WINDSOR FOREST.

**New Lodge Clinic was founded in 1921 in order to provide for the scientific investigation and treatment of disease by a "team" of physicians and specialists.**

**All forms of non-infectious medical cases are admitted, special attention being paid to disorders of digestion and metabolism, arthritis, anæmias, asthma, heart and kidney disease, tropical diseases, and functional and organic nervous disorders.**

**Particulars can be obtained on application to**

**The Secretary, New Lodge Clinic, Windsor Forest, Berks.** *Telephone:* **181 & 182, Winkfield Row.**

# HAYDOCK LODGE,

## NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tels. Address:* Street, Ashton-in-Makerfield.

# SHAFTESBURY HOUSE

FORMBY-BY-THE-SEA, Nr. LIVERPOOL

Specially built and licensed for the care and treatment of a limited number of Ladies and Gentlemen suffering from NERVOUS and MENTAL breakdown. Voluntary and certified patients received. Ladies also admitted as Temporary Patients without certification. Terms moderate. *Apply*, RESIDENT PHYSICIAN, who may be seen at 31, Rodney Street, Liverpool, by appointment. *Tel. No.* 8 *Formby.*

# ST. ANDREW'S HOSPITAL

## FOR MENTAL DISORDERS,

## NORTHAMPTON

*FOR THE UPPER AND MIDDLE CLASSES ONLY.*

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 120 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble, temporary patients, and certified patients of both sexes, are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

### WANTAGE HOUSE

This is a Reception Hospital, in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the most modern treatment of Mental and Nervous Disorders. It contains special departments for hydrotherapy by various methods, including Turkish and Russian Baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical Baths, Plombières treatment, &c. There is an operating Theatre, a Dental Surgery, and X-ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High Frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research.

### MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupation therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

### BRYN-Y-NEUADD HALL

The Seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout fishing in the park.

At all Branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard court), croquet grounds, golf course, and bowling greens. Ladies and gentlemen have their own gardens and facilities are provided for handicrafts such as carpentry, &c.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

# CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

***For the treatment of MENTAL DISORDERS.***

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens. Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

**The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.**

# FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Coine, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

*For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone* 9.

# THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

*Med. Supt.:* GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

# PRIOR PLACE SANATORIUM

## HEATHERSIDE, CAMBERLEY, SURREY.

## FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

# THE OLD MANOR SALISBURY

*A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.*

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.
CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period
Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 2251.

# PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." Telephones: Rodney 2841 and 2842.

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

# PENDYFFRYN HALL SANATORIUM

## PENMAENMAWR, NORTH WALES.

All Modern Methods of Treatment Available.

Ideally situated for the treatment of Tuberculosis. Sheltered from E. & N.E. winds. Climate mild and bracing. Low rainfall, high average of sunshine. The Sanatorium is situated in its own park. There are miles of graduated walks through pine, gorse and heather, rising to 1,000 ft., and commanding extensive sea and mountain views. Central heating, electric light, X-ray installation. Wireless in all rooms. Full day and night nursing staff. Special milk supply from a tuberculin tested herd. Easily accessible from LONDON (4½ hours), MANCHESTER, LIVERPOOL, BIRMINGHAM and the North.

Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

For particulars apply to the Secretary, Pendyffryn Hall, Penmaenmawr, North Wales. 'Phone 20

# CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

# CALDECOTE HALL

NUNEATON
WARWICKSHIRE
('Phone: Nuneaton 241)

Residential treatment of
## Functional Nervous Disorders
including Alcoholism and other Addictions
(Certifiable cases are not received)

This beautiful mansion situated in the heart of the country (less than two hours from London by L.M.S.R.) and surrounded by charming pleasure grounds in which games and outdoor occupational therapy are available is devoted to the treatment of Functional Nervous Disorders by psychotherapeutic and ancillary methods.

*Illustrated Brochure and particulars obtainable from A. E. CARVER, M.D., D.P.M., Resident Medical Superintendent.*

# PARK SANATORIUM

(FORMERLY SANATORIUM TURBAN)

## DAVOS-PLATZ, SWITZERLAND

First-class house, 5,150 ft. above sea-level. Large park and wood belonging to the sanatorium. Terms for board and residence, including room, medical treatment, etc., from Frs. 16.– per day. Prospectus.

**Medical Superintendent, F. BAUER, M.D.**

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

## NERVOUS & MENTAL AFFECTIONS

*Ladies only received*

## The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses McLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

# RUSSELLS

Hemel Hempstead Road,
WATFORD
Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

# BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

*For further particulars apply—*

Dr. ERNEST ROLLINS, Resident Physician.

*Tel.:* Amherst 1642.

# HOME FOR EPILEPTICS

**MAGHULL (near LIVERPOOL)**

**FARMING and OPEN AIR OCCUPATION for PATIENTS**

**A few vacancies in 1st and 2nd Class Houses.**

FEES: 1st Class (men only) from £3 p.w. upwards.
2nd Class (men and women) 32/- p.w.

*For further particulars apply:*

**C. EDGAR GRISEWOOD, A.C.A., Secretary,**
**20 Exchange Street East, Liverpool, 2**

# BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

Telephone: No. 6207 Gloucester.

# EPPING HOUSE

## LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

*Telephone:* Essenden 12. *Apply,* J. C. BAKER, M.B.

**PRIVATE NERVOUS AND MENTAL PATIENTS**

London County Council.—Accommodation for Male Patients suffering from nervous and mental disorder (voluntary, temporary, or certified) is provided in the private section of Claybury Hospital, Woodford-bridge, Essex. Terms, exclusive of clothing and special luxuries, 49s. a week for London cases, 53s. 1d. a week for others.

For particulars apply to the Medical Superintendent at the Hospital, or to the Chief Officer, Mental Hospitals Department, Shell-Mex House, Strand, W.C.2.

# Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received.
Apply to Dr. HAYNES. Tel.: Brentwood 45.

# CLARENCE LODGE

## CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

**HOME FOR TWELVE MENTAL PATIENTS (LADIES).**

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

*Station:* Clapham Common Tube.

*Phone:* Tulse Hill 4913

Apply
MISS THWAITES.

# THE ARCHER NERVE TRAINING COLONY

## LANGLEY RISE, KING'S LANGLEY, HERTS.

Started 34 years ago by the late Mrs. William Archer for the special treatment of **FUNCTIONAL NERVOUS DISORDERS** by a system of Relaxation correlated with training in Nerve Control. Home life in separate houses in charming grounds; 20 miles from London; Chalets for resting. Eurhythmics, Voice Production, Occupational Therapy, etc. Telephone: King's Langley 7519. Lessons and Treatments in the art of Relaxation can also be obtained at the "**FRANCES ARCHER**" Centre, 30, Dorset Sq., N.W.1 (near Baker St. Stn.), Weds. and Sats. 10–1 p.m., 2–5.30 p.m. Tel.: Ambassador 2864. All applications to the Secretary, King's Langley.

# NORTHUMBERLAND HOUSE

## GREEN LANES, FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

*Telephone:* Stamford Hill 2688.

For further particulars apply to the MEDICAL SUPERINTENDENT.

# MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

# CITY OF LONDON MENTAL HOSPITAL

**Near DARTFORD, KENT.**

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

# FENSTANTON

**Christchurch Road, Streatham Hill, S.W.2**

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

*Apply:* Dr. MADELINE R. LOCKWOOD,
*phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

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***Drug Habits, and Nervous Disorders***

25 minutes from London, situated in charming grounds and country is a "home from home" for those seeking rest and treatment under medical supervision. Fees from 6 guineas. Illustrated brochure on application to the Matron or the **RESIDENT MEDICAL SUPERINTENDENT,** E. G. MORRIS, L.R.C.S.I., L.R.C.P.I. Consultant: L. C. F. CHEVENS, M.R.C.S., L.R.C.P., D.P.M.

'Phone: CHISLEHURST 451

# OLD HILL HOUSE

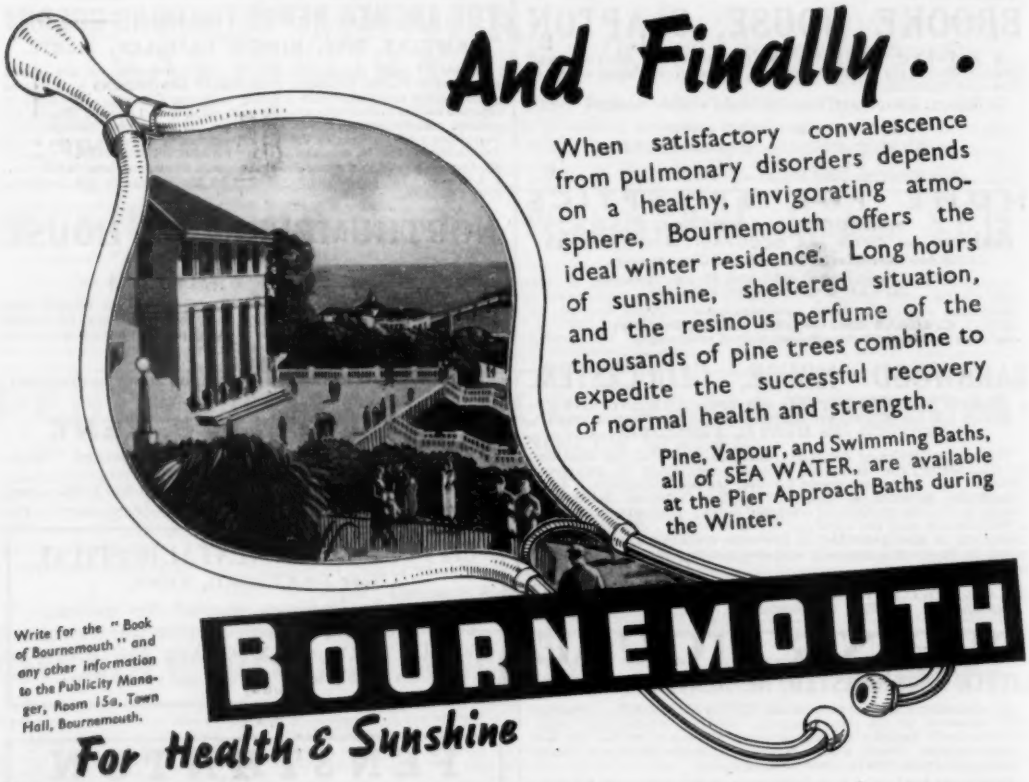
## CHISLEHURST, KENT.

# RHEUMA SPA, KINMEL HALL,

## ABERGELE, NORTH WALES

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

*IDEAL WINTER QUARTERS—REDUCED RATES*



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When satisfactory convalescence from pulmonary disorders depends on a healthy, invigorating atmosphere, Bournemouth offers the ideal winter residence. Long hours of sunshine, sheltered situation, and the resinous perfume of the thousands of pine trees combine to expedite the successful recovery of normal health and strength.

Pine, Vapour, and Swimming Baths, all of SEA WATER, are available at the Pier Approach Baths during the Winter.

Write for the "Book of Bournemouth" and any other information to the Publicity Manager, Room 15a, Town Hall, Bournemouth.

**BOURNEMOUTH**

*For Health & Sunshine*

# DAX

(FRANCE)

THE THERMAL ESTABLISHMENT WHOSE TREATMENT BY THE FAMOUS **MUD BATHS** WITH APPROPRIATE DIET IS UNRIVALLED FOR **RHEUMATISM.**

**OPEN ALL THE YEAR ROUND.**

Through trains from Paris. On the main line to Biarritz and Pau.

*For information or literature, apply to:*

FEDERATION OF THE HEALTH RESORTS OF FRANCE, BRITISH MEDICAL ASSOCIATION HOUSE, TAVISTOCK SQUARE, LONDON, W.C.1

or FRENCH RAILWAYS—NATIONAL TOURIST OFFICE, 179, PICCADILLY, LONDON, W.1

or SOCIÉTÉ DES EAUX THERMALES, DAX (FRANCE)

**THE MARINE SPA**

**(under the direction of the Corporation)**

# TORQUAY

Newly-fitted Balneological and Electro-Medical and Russian Bath sections for recognised forms of Spa, etc., treatment, under mild winter climatic conditions.
Large Cooling Lounge, and "Vita" Glass Sun Lounge.
Warm Sea-Water Swimming Bath with modern filtration plant.
Assistants with C.S.M.M.G., and Bio-Physical qualifications.

*The new illustrated 12-page Brochure post free on application.*

**H. Berkeley Hollyer, General Manager.**
(late Manager, Brine Baths, Droitwich)

# Smedley's

Great Britain's Greatest Hydro

**Matlock**

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Seapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.
*Resident Physicians:* G. C. R. HARRINSON, M.B., B.Ch., B.A.O.(R.U.I.), H. RHYS DAVIS, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*
*Phone:* Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

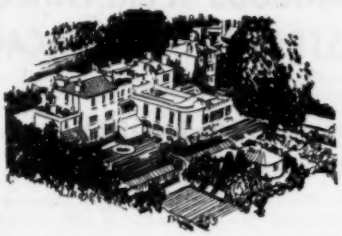
**THE CLINIC**

**20 Devonshire Place**
**London, W.1**

*Tel.: Welbeck 4444 (20 lines)*

**A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES**

Fees 10 gns. to 18 gns. per week (Average—14 gns.).
3 Operating Theatres.
150 State Registered Nurses.
2 Resident Medical Officers (for emergencies).
Patients only received under the supervision of their own Medical Practitioner.
Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.



**The Physical Treatment Centre that is "different"!**

50 minutes from London (Victoria), 15 minutes from Brighton. Standing in 7 acres of lovely grounds at the foot of the South Downs.

**Climate,** mild but not relaxing. No fogs, sheltered from cold winds.

**Comfort,** Service and every facility for Physical Treatment, without irksome restrictions of nursing home or clinic.

**Treatments,** include: Foam Baths, Ultra-Violet and Infra-red Ray, Diathermy, and other Electrical treatments, Pistany Mud Packs, etc. Massage and Remedial Exercises, Fully-qualified staff. Resident Physician.

**Convalescent** patients specially catered for.

Electric Lift to all floors. Fully Licensed. Superb Cuisine, Special Dieting if required.

● *Medical Practitioners are cordially invited to visit the Restorium. Write for Brochure and Terms to: Physician in Charge, Sunnyside Restorium, Hassocks, Sussex. Telephone: Hassocks 103.*

***Sunnyside***
*Restorium*
HASSOCKS . . . SUSSEX

## East Ham Memorial Hospital,
Shrewsbury-road, E.7.
(104 Beds.)

Applications are invited for the post of ANÆSTHETIST. The successful candidate will be required to attend on Wednesday mornings. Honorarium £1 1s. per session.

Applications, stating age, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by the 9th November.

REGINALD PERRY, Secretary.

## Evelina Hospital for Sick Children,
Southwark, S.E.

Applications are invited for the post of FOURTH ANÆSTHETIST (Male) from registered Medical Practitioners. There is an honorarium attached to the post at the rate of twenty-five guineas for each regular session.

Applications, with copies of testimonials, should reach the undersigned, from whom all particulars can be obtained, not later than first post on the 11th November.

W. H. SIDNELL, House Governor.

## London Hospital, E.1.

There is a vacancy for the post of HONORARY ASSISTANT OPHTHALMIC SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications should be sent to the House Governor, from whom further particulars may be obtained, and must arrive not later than on Monday, 14th November.

ARTHUR G. ELLIOTT, House Governor.

22nd October, 1938.

## London Hospital, E.1.

CARDIAC DEPARTMENT.

The post of PATERSON RESEARCH SCHOLAR and CHIEF ASSISTANT in this Department will be vacant on 1st January, 1939.

The salary is at the rate of £400 per annum.

Applications should arrive at the Hospital not later than Saturday, the 10th December.

Further particulars on request.

ARTHUR G. ELLIOTT, House Governor.

## Royal Northern Hospital,
Holloway, N.7.

Applications are invited for the post of HONORARY BIOLOGIST. Candidates must be University Graduates and have had previous experience in this type of work. Appointment is for one year with eligibility for re-election.

The successful candidate will be required to undertake special biological and biochemical investigations outside the routine work of the Pathological Laboratory.

Full particulars of the appointment and details with regard to the submission of testimonials, &c., may be obtained from the undersigned, to whom applications should be returned not later than November 11th, 1938.

GILBERT G. PANTER, Secretary.

## Royal Northern Hospital,
Holloway, N.7.

Applications are invited for the post of PHYSICIAN for Diseases of the Skin (Second) at the above Hospital.

Candidates must possess the degree of M.D. or M.B. obtained by Examination at a British University, and be Fellows or Members of the Royal College of Physicians.

Full particulars of the appointment and details with regard to the submission of testimonials, &c., may be obtained from the undersigned, to whom applications should be returned not later than November 11th, 1938.

GILBERT G. PANTER, Secretary.

## London Jewish Hospital,
Stepney Green, E.1.
General Hospital. (109 Beds.)

Candidates (Male) for the following resident appointments, which are for a period of six months, commencing 1st December next, may obtain forms of application from the Secretary, to whom application, with copies of three recent testimonials, must be sent on or before 18th November, 1938.

RESIDENT MEDICAL OFFICER AND HOUSE PHYSICIAN. Salary at the rate of £150 per annum.

HOUSE SURGEON. Salary at the rate of £100 per annum.

CASUALTY OFFICER. Salary at the rate of £100 per annum.

## Hampstead General Hospital,
Haverstock Hill, N.W.3.
(Out-patient Department, Camden Town, N.W.1.)

A vacancy is declared in the office of OPHTHALMIC SURGEON TO OUT-PATIENTS. Candidates must be Fellows of the Royal College of Surgeons of England, and are required to call upon members of the Honorary Medical Staff of the Hospital.

Applications, stating age, qualifications, and experience, with copies of three testimonials, should reach the undersigned by 18th November, from whom full particulars may be obtained.

KENNETH A. F. MILES, Secretary.

## Chelsea Hospital for Women,
Arthur-street, S.W.3.

JUNIOR HOUSE SURGEON (Male).

Applications are invited for the above post now vacant. The appointment is for six months at a salary of £100 per annum, together with board, residence, and laundry. At the expiration of this term he will be expected to proceed to the Senior post for six months at a salary of £120 per annum.

Candidates should forward their applications, giving full particulars, and accompanied by copies of three recent testimonials, to the undersigned not later than 7th November next.

GEO. W. COOLING, Secretary.

# BRITISH POSTGRADUATE MEDICAL SCHOOL

(UNIVERSITY OF LONDON)

## Department of Medicine

A COURSE OF SIX LECTURES on

**MEDICAL PSYCHOLOGY**

will be given by

**Professor E. MAPOTHER, M.D., F.R.C.P., F.R.C.S.**

on NOVEMBER 15th, 22nd, 29th, DECEMBER 6th, 13th, 20th, 1938, at 4.30 p.m.

## Department of Pathology

A COURSE OF THREE LECTURES on

**THE MUCOUS SECRETION of the GASTRO-INTESTINAL CANAL**

will be given by

**Professor H. W. FLOREY, M.A., Ph.D.**

on NOVEMBER 16th, 23rd, 30th, 1938, at 4.30 p.m.

## Department of Surgery

A COURSE OF TWO LECTURES on

**DISEASES OF THE BLADDER**

will be given by

**Mr. R. OGIER WARD, D.S.O., M.C., F.R.C.S.,**

on NOVEMBER 18th and 25th, 1938, at 2.30 p.m.

These lectures are for regular students of the School, but a limited number of tickets are available, without fee, for medical practitioners. Applications for tickets should be addressed to the DEAN, BRITISH POSTGRADUATE MEDICAL SCHOOL, DUCANE-ROAD, SHEPHERD'S BUSH, LONDON, W. 12.

## London Hospital Medical College.

THE LIDDLE TRIENNIAL PRIZE

Under the will of the late Dr. John Liddle, the College Board of the London Hospital offer a prize to the value of £120 for the best essay on "PURPURA—ITS ÆTIOLOGY AND TREATMENT."

A statement of the rules under which the prize is awarded may be obtained from the undersigned, to whom Essays should be sent not later than 31st May, 1939.

Dr. A. E. CLARK-KENNEDY, M.D., F.R.C.P., Dean.

London Hospital Medical College, Turner-street, London, E.1.

## St. Marylebone Borough Council.

APPOINTMENT OF TUBERCULOSIS OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified and registered Medical Practitioners for the whole-time appointment of Tuberculosis Officer and Assistant Medical Officer of Health at a salary of £800 per annum, rising, on approved service, by annual increments of £25 to £1000 per annum.

Candidates should not exceed 40 years of age.

Form of application and further particulars and conditions of appointment can be obtained from the Medical Officer of Health, Town Hall, St. Marylebone, W.1.

Applications on the official form must be addressed to "The Town Clerk, Town Hall, St. Marylebone, W.1," and delivered in sealed envelopes marked "Tuberculosis Officer" not later than 10th December, 1938.

The appointment will be subject to satisfactory medical examination and production of birth certificate.

The Council's Bye-laws provide that canvassing shall disqualify an applicant.

## The London Chest Hospital,

Victoria Park, E.2.

('Bus, Tram and Rail, Cambridge Heath, L. and N.E. Railway.)

Applications (with copies of three testimonials) are invited to be sent to the Secretary, on or before Wednesday, 30th November, 1938, for the following posts, subject to the rules and by-laws of the Hospital:—

RESIDENT MEDICAL OFFICER (Male) for one year from 1st January, 1939. Salary £350 per annum.

HOUSE PHYSICIAN (Male) for six months from 1st January, 1939. Salary at the rate of £100 per annum.

HOUSE SURGEON (Male) for six months from 1st January, 1939. Salary at the rate of £100 per annum.

Board, residence, and laundry provided.

## Guy's Hospital.

THE SIR ALFRED FRIPP MEMORIAL FELLOWSHIP IN CHILD PSYCHOLOGY.

Applications are invited for the above Fellowship, which is of the value of £300 per annum, and is tenable for a period of two years.

The Fellowship has been established with the object of promoting the advancement of knowledge and research in Psychology, more particularly through the study of children in health and/or in disease. Each candidate must submit with his or her application a definite scheme of advanced study or research work to be carried out during the tenure of the Fellowship, together with particulars of his, or her, previous career. The investigations undertaken by the Fellow shall be carried out in the Children's Department of Guy's Hospital.

Men and women are eligible for the Fellowship. Candidates must be unmarried, of not more than thirty years of age, and must possess a registrable qualification to practise medicine. Canvassing will be regarded as a disqualification.

Further particulars as to the regulations governing the Fellowship may be obtained from the Dean, Guy's Hospital Medical School, S.E.1, with whom applications (ten copies), together with the names of three referees, should be lodged not later than November 30th, 1938.

T. J. EVANS, Dean.

## London Hospital, E.1.

There is a vacancy for the post of FIRST ASSISTANT AND REGISTRAR to the Neurosurgical Department.

Candidates must possess the F.R.C.S. Eng. qualification.

Applications should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than on Saturday, December 3rd.

ARTHUR G. ELLIOTT, House Governor.

31st October, 1938.

## King Edward Memorial Hospital,

EALING. (145 Beds.)

Applications are invited for the posts of—

HOUSE PHYSICIAN (Male).

CASUALTY HOUSE SURGEON (Male).

Both appointments are for six months, with possibility of re-election for a further period, and the salary in each case is £150 per annum, with usual residential emoluments.

Applications, stating age, experience, and qualifications, and accompanied by copies of two recent testimonials, should be sent to the undersigned immediately.

R. A. MICKELWRIGHT, House Governor.

# HIS MAJESTY'S COLONIAL SERVICE

## COLONIAL MEDICAL SERVICE

During 1938 the Secretary of State for the Colonies proposes to select a number of **MEDICAL OFFICERS** to fill vacancies, the majority of which will occur in **TROPICAL AFRICA** or in **MALAYA.**

### QUALIFICATIONS.

Candidates must be British subjects of European parentage, under 35 years of age, and must possess a medical qualification registrable in the United Kingdom. Preference will be given to candidates who have held Hospital or Public Health appointments, or who have special knowledge of anæsthetics, radiology, surgery, medicine, ophthalmology, gynæcology and midwifery, diseases of the ear, nose, and throat, venereal diseases, &c.

### SALARY.

Initial salaries vary from £600 to £700, and rise by increments to a maximum of between £1000 and £1200.

### PRIVATE PRACTICE.

Private practice is not allowed as of right, but in the case of some appointments it is permitted on certain conditions.

### QUARTERS.

In Tropical Africa, free quarters, or an allowance in lieu, are provided. In Malaya, quarters are provided at an annual rental not exceeding 6 per cent. of the officer's salary.

### PASSAGES.

Free first-class passages are provided on first appointment and when proceeding on and returning from leave. Assistance is also given towards family passages.

### TERMS OF APPOINTMENT.

The appointments are pensionable, subject to a probationary period which varies from two to three years.

### COURSES OF INSTRUCTION IN TROPICAL MEDICINE and HYGIENE.

Selected candidates will normally be required to attend a course of instruction leading to the Diploma in Tropical Medicine and Hygiene before proceeding overseas.

### DUTIES.

Although Medical Officers are appointed in the first instance for general service, there are opportunities for work in special branches of medicine and surgery, in public health, and in medical research.

Further particulars and forms of application may be obtained from the DIRECTOR OF RECRUITMENT (Colonial Service), 8, Buckingham Gate, London, S.W.1.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in January, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list, and periods of unemployed or half pay are very rare. The assistance of private income is not necessary for the purpose of supplementing official pay and allowances.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 21st November, 1938.

## THE LISTER INSTITUTE OF PREVENTIVE MEDICINE

JENNER MEMORIAL STUDENTSHIP IN VIRUS RESEARCH.
LISTER INSTITUTE RESEARCH STUDENTSHIP IN BIOCHEMISTRY.

Applications are invited for the above two studentships, value £250 per annum, tenable for one year from January, 1939, but renewable, on satisfactory progress for a second year.

The selected students will be required to work under the supervision of the staff on problems of virus chemistry and bacterial chemistry respectively. A sound knowledge of organic chemistry is essential and it is desirable that candidates should have had experience in biochemical and bacteriological technique and some training in research methods generally.

Applications, giving full details of scientific training and the names of two referees familiar with the candidate's career, should be sent to the Secretary, Lister Institute, Chelsea Bridge-road, London, S.W.1, before November 30th.

## St. Bartholomew's Hospital.

CHIEF ASSISTANT IN THE DENTAL DEPARTMENT.

Applications are invited for the post of Chief Assistant (unpaid) in the Dental Department.

Candidates must hold a registered British Medical qualification as well as a registered British Dental qualification.

Appointment will be made for a period expiring the 31st December, 1939, with eligibility for re-election.

Candidates will be required to call upon the six Dental Surgeons.

Twelve copies of applications and testimonials should be left with the undersigned not later than Saturday, the 3rd December, 1938.

C. C. CARUS-WILSON, Clerk to the Governors.

27th October, 1938.

## St. Bartholomew's Hospital.

ASSISTANT DENTAL SURGEON.

Notice is hereby given that an Assistant Dental Surgeon is to be appointed to this Hospital.

Candidates must hold a registered British Medical qualification as well as a registered British Dental qualification.

Candidates will be required to call upon the six Dental Surgeons.

Twelve copies of applications and testimonials should be left with the undersigned not later than Saturday, the 3rd December, 1938.

C. C. CARUS-WILSON, Clerk to the Governors.

27th October, 1938.

## Hampstead General and North-West
LONDON HOSPITAL, Haverstock-hill, N.W.3.

APPOINTMENT OF CASUALTY SURGICAL OFFICER.

Applications are invited from registered Medical Women for the resident appointment of Casualty Surgical Officer for six months, vacant December 1st next, at the Out-patient Department, Bayham-street, Camden Town. Salary £100 per annum.

Applications to be made on the prescribed form, together with copies of not more than three testimonials should be returned to the Secretary by November 19th next.

## The Prince of Wales's General Hospital,
London, N.15. (238 Beds.)

Applications are invited for the posts of HONORARY CLINICAL ASSISTANTS in the various Departments of the Hospital (Surgical, Medical, Children, Skin, Ear, Nose, and Throat, Eye, Gynæcological, X-ray and Electrical) for the year 1938.

Applications for appointment to any of these posts should be sent to the undersigned on or before Friday, November 25th, 1939

J. C. BURDETT, Director and House Governor.

## The Royal Dental Hospital of London,
32, Leicester-square, W.C.2.

There is a vacancy for an HONORARY ASSISTANT DENTAL SURGEON. Candidates, who must be Graduates or Licentiates of Dental Surgery of one of the Universities or licensing bodies recognised by the General Medical Council of the United Kingdom, are requested to send in forty copies of applications and testimonials on or before the 21st November, 1938, to the Secretary-Superintendent, from whom further particulars may be obtained.

## Royal Northern Hospital,
Holloway, N.7.

Applications are invited for the following appointment :—
HOUSE SURGEON, vacant December 15th. The appointment is for nine months (six months as House Surgeon and three months as Casualty Officer). Salary at the rate of £70 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by November 11th to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

## University College Hospital,
Gower-street, W.C.1.

Applications are invited for the post of whole-time REGISTRAR in the X-RAY DIAGNOSTIC DEPARTMENT for a period of one year from the 1st January, 1939, with salary at the rate of £250 per annum.

Applications, accompanied by evidence of fitness for the post, should reach the Secretary not later than noon on Monday, the 28th November, 1938.

R. SLOLEY, Secretary.

## The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of RADIOLOGIST (part-time) at this Hospital.

Applicants must be registered Medical Practitioners, who hold a Diploma in Radiology.

The duties of the post will be entirely in connexion with the diagnostic section of the Department.

Salary at the rate of £500 per annum.

Applications to be made on a form which will be supplied by the Secretary, together with three (copies only) recent testimonials, should be sent to the Secretary on or before Monday, 14th November, 1938.

CLEMENT COBBOLD, Secretary.

## The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

The Committee are prepared to receive applications for the post of ASSISTANT PATHOLOGIST to the Hospital. Experience in Clinical Pathology is essential.

Salary £500 per annum.

The appointment is subject to rules, a copy of which can be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, accompanied by copies of not more than three recent testimonials, to be sent to the Secretary not later than Monday, 14th November, 1938.

CLEMENT COBBOLD, Secretary.

## The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the office of SURGEON to the Hospital.

Candidates must be Fellows of the Royal College of Surgeons, England, or Masters of Surgery of a recognised British University.

Applications, together with copies of three recent testimonials, must be sent to the undersigned not later than noon on Monday, 14th November, 1938.

The Senior Assistant Surgeon is a candidate for the office.

CLEMENT COBBOLD, Secretary.

## The Middlesex Hospital and Medical
SCHOOL, W.1.

Applications are invited for :—
One MEDICAL REGISTRARSHIP.
One OTOLOGICAL REGISTRARSHIP.
One FRACTURE AND ORTHOPÆDIC REGISTRARSHIP.

The appointments are for one year from the 1st January, 1939, and the holders are eligible to apply for reappointment and may retain office for three consecutive years. Salary £300 per annum. Further particulars may be obtained from the Secretary-Superintendent, to whom applications, with copies of not more than three testimonials, must be sent by noon on Wednesday, November 16th, 1938.

By order of the Board,
S. R. C. PLIMSOLL, Secretary-Superintendent.

## Bolingbroke Hospital,
Wandsworth Common, S.W.11.
(135 Beds.)

HOUSE SURGEON (Male, unmarried) required.

The appointment is for six months commencing on the 1st December, 1938. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before November 9th, 1938.

W. S. RANDOLPH BISS, Secretary-Superintendent.

## The Victoria Hospital for Children,
Tite-street, Chelsea, S.W.3.
(138 Beds.)

The Committee of Management invite applications for the post of PHYSICIAN to Out-patients. Candidates must be Fellows or Members of the Royal College of Physicians of London and are expected to call on Members of the Honorary Medical Staff.

Applications, with copies of three recent testimonials, should be sent to the Secretary not later than first post, Saturday, the 19th November, 1938.

D. ST. JOHN BAMFORD, Secretary.

## King Edward Memorial Hospital,
Ealing, W.13.
(145 Beds.)

Applications, which should be submitted by Wednesday, November 9th, 1938, are invited for the following appointments :—

CONSULTING PHYSICIAN.
CONSULTING PHYSICIAN FOR DISEASES OF CHILDREN.

Particulars may be obtained from the undersigned.

R. A. MICKELWRIGHT, House Governor.

## Metropolitan Borough of Lambeth.

DEPUTY MEDICAL OFFICER OF HEALTH.

The Lambeth Borough Council invite applications from fully qualified Medical Practitioners for the appointment of Deputy Medical Officer of Health for the Borough at an inclusive salary of £840 per annum, rising by annual increments of £40 to a maximum of £960 per annum.

Candidates must not be more than forty years of age on the 17th November, 1938, and must possess the qualifications prescribed by the Public Health (London) Act, 1936, and the Sanitary Officers Order, 1926. The gentleman appointed will be required to devote the whole of his time to the duties of the office, to contribute to the Council's Superannuation Fund, and to submit himself to the Council's Doctor for examination, the appointment being subject to such Doctor's report being satisfactory. The appointment will also be subject to the approval of the Minister of Health.

Applications on forms to be obtained from the undersigned, endorsed "Deputy Medical Officer," accompanied by copies of three testimonials of recent date are to be delivered by noon on Monday, the 21st November, 1938.

Canvassing either directly or indirectly will disqualify a candidate.

O. L. ROBERTS, Town Clerk.

Lambeth Town Hall, Brixton-hill, S.W.2, 28th October, 1938.

## Woolwich and District War Memorial
HOSPITAL, Shooters-hill, London, S.E.18.

GENERAL HOSPITAL (112 Beds.)

The Board of Management invites applications from suitably qualified candidates for the following appointments :—

(a) RESIDENT SURGICAL OFFICER.—Applicants must have special knowledge of surgery. This appointment will be for twelve months with effect from November 20th, 1938, and it is desirable that candidates shall possess the Fellowship of one of the Royal Colleges of Surgeons. The salary will be £200 per annum, plus board, residence, and laundry : the appointment is renewable for a further period of twelve months if approved by the Board of Management.

(b) HOUSE PHYSICIAN.—This appointment will be for six months from December 1st, 1938, and the remuneration will be at the rate of £100 per annum, plus board, residence, and laundry.

The closing date for the receipt of applications is November 16th, first post, and short-listed candidates will be invited to meet the Appointments Committee (at the Hospital) at 4.45 P.M. on November 17th.

Applications should be made on the prescribed form, obtainable from the undersigned.

R. S. G. HUTCHINGS, Secretary.

## St. Mark's Hospital for Cancer, Fistula,
AND OTHER DISEASES OF THE RECTUM,
City-road, London, E.C.1.

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £150 per annum, and certain emoluments, with board, residence, and laundry. The appointment is for a minimum of six months. Duties to commence on 27th November, 1938.

Applications, with copies of testimonials, must reach the Secretary (from whom further particulars may be obtained) not later than Saturday, 12th November, 1938.

## St. Mark's Hospital for Cancer, Fistula,
AND OTHER DISEASES OF THE RECTUM,
City-road, E.C.1.

Applications are invited for a CLINICAL ASSISTANTSHIP now vacant in the Out-patients' Department on Monday afternoons. The appointment is for six months in the first instance, and a fee of Three Guineas is payable on appointment.

Applications to reach the Secretary (from whom further particulars may be obtained) at the Hospital by Saturday, 12th November, 1938.

## The Salvation Army,
THE MOTHERS' HOSPITAL, Lower Clapton-road,
Clapton, E.5.

Applications are invited from Medical Women for the post of SENIOR RESIDENT MEDICAL OFFICER, vacant 1st January, 1939. Salary £150 per annum, with board, residence, and laundry. The appointment is for twelve months, but in special circumstances an appointment of six months might be considered.

Applications, with testimonials, must be sent to the Secretary on or before Wednesday, 30th November, 1938.

FRED HAMMOND, Secretary.

## The Salvation Army,
THE MOTHERS' HOSPITAL, Lower Clapton-road,
Clapton, E.5.

Applications are invited from Medical Women for the post of JUNIOR RESIDENT MEDICAL OFFICER, vacant 1st January, 1939. Salary £80 per annum, with board, residence, and laundry. The appointment is for six months.

Applications, with testimonials, must be sent to the Secretary on or before Wednesday, 30th November, 1938.

FRED HAMMOND, Secretary.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

There are vacancies for the following :—

A RESIDENT SURGICAL OFFICER. Duties to commence on the 1st January, 1939. Salary £200 per annum.

This appointment is tenable in the first instance for one year, but may be extended for a period of one further year.

Two RESIDENT HOUSE PHYSICIANS and One RESIDENT HOUSE SURGEON. Duties to commence on the 1st January, 1939. Salaries at the rate of £50 per annum.

These appointments are tenable for six months.

A RESIDENT ANÆSTHETIC REGISTRAR. Duties to commence on the 1st January, 1939. Salary at the rate of £100 per annum.

This appointment is tenable in the first instance for six months, but may be extended for a further period of six months.

A RESIDENT MEDICAL OFFICER at the COUNTRY BRANCH HOSPITAL, TADWORTH-COURT, TADWORTH, SURREY. Duties to commence on the 1st January, 1939. Salary at the rate of £250 per annum.

This appointment is tenable for six months, but is renewable.

Candidates for the above appointments must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by noon on Monday, the 28th November, 1938, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 7th December, 1938.

Full particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

## Victoria Hospital for Children,
Tite-street, Chelsea, S.W.3.
(138 Beds.)

The Committee of Management invite applications for the post of SENIOR RESIDENT MEDICAL OFFICER (Male), vacant 1st January, 1939.

The appointment is for one year. Salary £200 per annum, with board, lodging, and washing, and certain fees from the private wards.

Candidates must have previously held a Hospital appointment.

They must attend the Hospital for the purpose of an interview.

Applications, with copies of three recent testimonials, should be sent to the Secretary not later than first post on Thursday, 17th November.

D. ST. JOHN BAMFORD, Secretary.

## Victoria Hospital for Children,
Tite-street, Chelsea, S.W.3.
(138 Beds.)

The Committee of Management invite applications for the post of CASUALTY OFFICER (Non-resident), for a period of three months commencing 1st December next. Hours 9 A.M. to 1.30 P.M. daily (including Saturday). Salary at the rate of £200 per annum, with lunch.

Candidates are expected to attend a subcommittee for an interview and to send their applications and copies of three testimonials to the Secretary not later than first post Thursday, 17th November.

The post gives excellent facilities for post-graduate study.

D. ST. JOHN BAMFORD, Secretary.

## Miller General Hospital,
Greenwich-road, S.E.10.

Applications are invited for the following posts :—

HOUSE PHYSICIAN. Male ; unmarried. Salary £100 per annum.

HOUSE SURGEON. Male ; unmarried. Salary £100 per annum.

TWO CASUALTY OFFICERS. Male ; part-time ; one for morning session, and one for afternoon. Salary £150 per annum, non-resident. Fuller particulars on application.

OUT-PATIENT OFFICER, who is required to see Medical and Surgical cases. Attendance daily (except Sunday) from 9 to 1 ; Tuesdays 9 to 5. Salary £150 per annum and lunch.

The appointments are for six months from 1st January, 1939. There are six Resident Officers.

Application forms can be obtained from the Secretary, and must be returned not later than 21st November, 1938.

1st November, 1938.

## Miller General Hospital,
Greenwich-road, S.E.10.

Applications are invited for the post of RESIDENT SURGICAL OFFICER AND REGISTRAR (the senior of six resident posts). Salary £250 per annum. Candidates (Male) must be unmarried. Board, residence, and laundry provided.

Duties to commence on 1st January, 1939.

Application forms can be obtained from the Secretary, and must be returned not later than 21st November, 1938.

1st November, 1938.

## The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON (Resident) to be attached to the Radium Department.

Candidates must be registered Medical Practitioners.

Salary £100 per annum.

Facilities afforded for Post-graduate study.

The appointment is for six months commencing 1st December, 1938.

Applications, to be made on a form which will be supplied by the Secretary, with copies only of not more than three recent testimonials, to be sent to the Secretary not later than the first post on Monday, 14th November, 1938.

CLEMENT COBBOLD, Secretary.

## The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the Two posts of HOUSE SURGEON, to commence duties on 1st January, 1939.

Salary at the rate of £100 per annum each.

The appointments are for six months and subject to rules, a copy of which may be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, together with three (copies only) testimonials to be sent to the undersigned not later than the first post on Monday, 14th November, 1938.

CLEMENT COBBOLD, Secretary.

## Italian Hospital, Queen-square, W.C.

The Committee of Management invite applications for the post of HONORARY ANÆSTHETIST, from fully qualified candidates.

Applications, with testimonials (copies only), should be sent to the Secretary on or before Friday, 18th November, 1938.

## Borough of Wimbledon.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER (Male).

Applications are invited for the above appointment from qualified and registered Medical Practitioners under thirty-five years of age, having at least three years' experience since qualification. Applicants should possess the D.P.H., and experience of School Medical work and general Public Health work is necessary.

The officer appointed will be required to reside in the Borough, to devote his whole time to his official duties, and to work under the direction of the Council's Medical Officer of Health.

The commencing salary is £600, rising by annual increments of £25 to a maximum of £700 per annum. The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the passing of a medical examination.

Application forms can be obtained from the Medical Officer of Health, Town Hall, Wimbledon, to whom they must be returned, with copies of three recent testimonials, not later than first post on Monday, 21st November.

HERBERT EMERSON SMITH, LL.B., Town Clerk.

Town Hall, Wimbledon, S.W.19, 1st November, 1938.

## Staffs. County Mental Hospital,
BURNTWOOD, near LICHFIELD.

Wanted, THIRD ASSISTANT MEDICAL OFFICER (Male). Salary £400 per annum, increasing to £450 after a year's service, with board, lodging, washing, and attendance, valued at £130 per annum. £50 extra per year will be paid if in possession of the D.P.M. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Candidates must be registered Medical Practitioners; hospital experience and bacteriology essential.

Canvassing any member of the Committee may render candidate liable to disqualification.

Applications, together with copies of not more than three testimonials, to be sent to the Medical Superintendent, not later than Saturday, November 12th, 1938.

## Taunton and Somerset Hospital.

A HOUSE SURGEON required at once for a period of three months. Another H.S. and a H.P. also in residence. Salary at the rate of £125 per annum, with board, residence, and laundry, and the retention of certain fees.

Applications, with copies of not more than three recent testimonials, to F. J. J. STACEY, Secretary.

## County Borough of Barrow-in-Furness.

Applications are invited for the appointment of MEDICAL OFFICER OF HEALTH AND PORT MEDICAL OFFICER of the Borough, subject to the provisions of the Sanitary Officers' Order, 1926, and the Local Government Act, 1933.

Candidates must not be more than forty-two years of age.

The person appointed will be required to perform all the duties of a Medical Officer of Health under relevant Acts and Orders, to act as School Medical Officer for the Borough, Administrative Tuberculosis Officer, and Superintendent of the work of the Maternity and Child Welfare Service. He will also be required to act as Medical Superintendent of the Devonshire-road Isolation and Tuberculosis Hospital.

The person appointed must reside within the borough, devote his whole time to the duties of the office, and not engage in private practice.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922. The successful candidate will be required to pass a medical examination.

The salary to cover all duties will commence at the rate of £900 per annum, rising subject to satisfactory service, by annual increments of £50 to a maximum of £1050 per annum. A motor car allowance of £50 per annum will be granted.

Applications, endorsed "Medical Officer of Health," stating age, qualifications, and experience, and accompanied by copies of not more than three recent testimonials, should reach the undersigned not later than Wednesday, 23rd November, 1938.

Canvassing, directly or indirectly, is prohibited and will result in disqualification.

W. LAWRENCE ALLEN, Town Clerk.

Town Hall, Barrow-in-Furness.

## The General Hospital, Birmingham.
(The Birmingham United Hospital.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER. Candidates must be Fellows of one of the Royal Colleges of Surgeons and must also possess a Medical qualification and be registered. The salary will be £180 per annum (plus certain fees) with board, residence, and laundry.

The appointment will be made for one year from January 1st next, and be subject to annual renewal for two subsequent years.

Applications, with certificates of registration and copies of testimonials, should be sent by November 21st to the undersigned, from whom further particulars may be obtained.

A. H. LEANEY, House Governor.

November 1st, 1938.

## King Edward VII Hospital, Windsor.
(200 Beds.)

CASUALTY OFFICER required, beginning December Applicants must be fully qualified men or women and unmarried.

Salary at the rate of £120 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications, and experience, accompanied by testimonials, should be sent to the undersigned not later than 16th November.

A. E. CHURCHER, Secretary.

## City of Manchester.

CRUMPSALL HOSPITAL. (1543 Beds.)
(Recognised under regulation for the F.R.C.S.)

The Public Health Committee invites applications from registered Medical Men for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in additon, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Town Hall, Manchester 2, and applications for the post must be received by him not later than 16th November, 1938.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 31st October, 1938.

## Royal Hampshire County Hospital,
WINCHESTER.

Applications are invited for a SECOND ASSISTANT HONORARY ANÆSTHETIST to the Hospital. Candidates must be Fellows or Members of one of the Royal Colleges of Physicians of Great Britain or Ireland, or a Graduate in Medicine of one of the Universities of Great Britain or Ireland, and must be duly registered.

Applications, with testimonials, not more than three, to be sent to the Secretary not later than the 21st November.

Canvassing, direct or indirect, is prohibited.

HERBERT MASLEN, Secretary.

1st November, 1938.

## Institute of Research for Prevention
OF DISEASE, Grove-street, LIVERPOOL, 7.

RESEARCH FELLOW required. Candidates with experience of animal work preferred. Applications to Secretary.

## Wonford House Hospital, Exeter.
(Incorporated.)

Applications are invited for the post of MEDICAL SUPERINTENDENT at the Wonford House Hospital, Exeter, a Registered Mental Hospital.

Candidates must be duly registered Medical Practitioners, holding the Diploma in Psychological Medicine, and not under thirty years of age. They must have had experience in the care and treatment of the Insane in an Institution of similar character.

Particulars of the terms of the appointment and emoluments, and details with regard to the submission of testimonials, can be obtained from the undersigned, to whom applications for the post should be sent not later than 1st December, 1938.

(Signed) GEORGE W. JACKSON, Secretary and Treasurer.
15a, Bedford-circus, Exeter, Devon.

## Coton Hill Mental Hospital, Stafford.

Wanted, an ASSISTANT MEDICAL OFFICER (Male) unmarried). Salary £400 per annum, with residence, board, and laundry.

Applications, with testimonials (copies only), to be sent to the Chairman, as soon as possible.

## Southend-on-Sea General Hospital.
(235 Beds. 8 Residents.)
(Hon. Specialist Staff of 20 Members.)

Applications are invited for the post of
CASUALTY OFFICER (Male).
(with duties in Orthopædic Department and Fracture Clinic). Salary £100 per annum, with board, residence, and laundry. The appointment is for six months from 1st December, 1938.

Applications, with copies of two recent testimonials, should be sent to the undersigned not later than 10th November.

P. H. CONSTABLE, Secretary.

## Altrincham General Hospital.
(100 Beds.)

HONORARY SURGEON.

Applications are invited for the post of Honorary Surgeon to the Altrincham General Hospital.

Applicants must have a higher Surgical qualification and should reside within ten miles from Altrincham. Applicants must state what Hospital appointments they already hold, and what attendances these appointments entail.

Further particulars and list of duties can be obtained from the Secretary of the Hospital. Twelve printed or typewritten copies of the application, together with three testimonials, should reach the undersigned not later than the 9th November, 1938.

E. A. BIDEN, Secretary.

## Cheshire Joint Sanatorium,
MARKET DRAYTON.

Wanted THIRD ASSISTANT MEDICAL OFFICER (Male), resident for a period of twelve months.

Salary £250 per annum. Forms of application from the Medical Superintendent.

## Cheshire County Mental Hospital,
PARKSIDE, MACCLESFIELD.

Applications are invited for the post of THIRD SENIOR ASSISTANT MEDICAL OFFICER. Candidates must have had previous Mental Hospital experience, and must hold a Diploma in Psychological Medicine. Preference will be given to those who have had experience as a House Surgeon or Physician in a General Hospital.

Salary £550 per annum, rising by two annual increments of £25 each to £600, with house (rent and rate free), coal, electric light, laundry, and garden produce, which are valued for superannuation purposes at £100 per annum.

The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

The Hospital has a fully equipped laboratory for clinical and research purposes.

Experience in treatment of Out-patients and Occupational Therapy will be an advantage.

Applications, with copies of three testimonials, must be sent to the Medical Superintendent not later than the 9th November.

## City of Birmingham.
SELLY OAK HOSPITAL. (520 Beds.)

JUNIOR MEDICAL OFFICERS (Male).

Applications are invited from fully qualified Medical Practitioners for the whole-time appointments of Junior Medical Officers (Male) at the Selly Oak Hospital, Birmingham.

The appointments will be for periods of six months in the first instance, but may be extended at the end of that time for further periods of not exceeding six months.

Salary at the rate of £200 per annum, and full residential emoluments.

Further particulars may be obtained from the Medical Superintendent at Selly Oak Hospital, to whom applications, stating age, experience, and qualifications, with copies of recent testimonials, should be forwarded not later than Wednesday, 9th November, 1938.

F. H. C. WILTSHIRE, Town Clerk.
The Council House, Birmingham, October, 1938.

## City and County of Newcastle-upon-Tyne.
CITY HOSPITAL FOR INFECTIOUS DISEASES.

JUNIOR RESIDENT MEDICAL ASSISTANT (Male).

Applications for the above appointment are invited from duly qualified and registered Medical Practioners. The holding of a previous resident appointment is essential.

Salary £250 per annum, with board, lodging, etc.

The appointment is for a period of one year only.

Applications on the prescribed form, which can be obtained on application to the Medical Officer of Health, Town Hall, Newcastle-upon-Tyne, 1, must be submitted not later than Saturday, 12th November, 1938.

## Gloucester County and City Mental
HOSPITALS.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Man or Woman).

The commencing salary is £350, rising by annual increments of £25 to £450 per annum, with board, lodging, laundry, and attendance, valued for superannuation purposes at £104 per annum. A further £50 per annum will be paid if the selected candidate has or obtains a degree or diploma in psychological medicine. The appointment will be subject to the Asylums Officers' Superannuation Act, 1909.

Excellent facilities exist for laboratory and research work.

Applications, stating age and full particulars, accompanied by copies of three recent testimonials, should be sent to the Medical Superintendent, County Mental Hospital, Gloucester.

## Lancashire Mental Hospitals Board.
CALDERSTONES (Certified Institution for Mental Defectives), WHALLEY, near BLACKBURN,
and
BROCKHALL (Certified Institution for Mental Defectives), LANGHO, near BLACKBURN.

Applications are invited from duly qualified and registered persons for the post of whole-time DENTAL SURGEON to the two Institutions named above. The officer appointed will be required to carry out his duties under the direction of the Medical Superintendents of the respective Institutions, who will arrange the hours of duty at each Institution, and to do the requisite mechanical work. The appointment is non-resident, but the place of residence of the officer appointed will be subject to the approval of the Committees of Management.

The Institutions are approximately five miles apart, and third class travelling expenses will be allowed between them, or, alternatively, if the officer uses his own car for this purpose, the mileage rate in force for the time being will be paid. Any meals taken in the Institutions will be charged for at the rate laid down in the Board's Scale of Salaries and Wages for Medical Officers.

The appointment is subject to the provisions of the Asylums and Certified Institutions (Officers' Pensions) Act, 1918, and will be terminable by three months' notice in writing on either side.

Annual leave three weeks. Salary £500 per annum, rising by annual increments of £25 to £600.

Applications must be made on the prescribed form which may be obtained from the Medical Superintendent, Calderstones Institution, Whalley, near Blackburn, Lancashire, and returned not later than the first post on Thursday, the 1st December, 1938.

## County Borough of Smethwick.
ST. CHAD'S HOSPITAL, BIRMINGHAM, 16.

HOUSE SURGEON.

Applications are invited from registered Medical Practitioners for the appointment of House Surgeon at the Council's Municipal Hospital. The appointment will be for a period of six months with salary at the rate of £150 per annum, with the usual emoluments. If the successful candidate is reappointed for a further period of six months, the salary will be at the rate of £200 per annum. St. Chad's Hospital contains 147 Beds, and the cases treated include General Medical, Acute Surgical, and Maternity patients. It is staffed by the Honorary Consultants of the Birmingham teaching hospitals.

Forms of application may be obtained from the Medical Superintendent, St. Chad's Hospital, Hagley-road, Birmingham, 16, to whom applications, endorsed "House Surgeon," and accompanied by copies of three recent testimonials, must be delivered not later than 9th November, 1938.

Canvassing, directly or indirectly, will disqualify.

FRANK CHAPMAN, Town Clerk.
Council House, Smethwick, 25th October, 1938.

## North Riding Infirmary, Middlesbrough.
(General Hospital. 143 Beds.)

The General Board invite applications for the position of ASSISTANT HONORARY SURGEON.

Applications, stating age, qualifications, and experience, together with copies of three testimonials, should be sent to the undersigned not later than Saturday, November 12th, 1938.

By order of the General Board,
GERALD A. KENYON, Secretary-Superintendent.
1st November, 1938.

## Rowley Regis Borough Council.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER (Female).

The Council of the Borough of Rowley Regis invite applications for the above whole-time appointment from duly qualified registered Medical Practitioners. It is essential that the officer appointed should have had experience in Maternity and Child Welfare work. The salary will be £500 and will rise, subject to satisfactory service, by annual increments of £25 to £700 per annum. Travelling expenses, in accordance with the Council's scale, will be allowed. The appointment is subject to the Local Government Officers' Superannuation Act, 1922.

Candidates must apply on the prescribed form which can be obtained from Dr. Frank Asker, Medical Officer of Health, Haden Hill Park Offices, Old Hill, Staffs.

Applications, together with copies of not more than three testimonials, must be received by the undersigned not later than Saturday, November 26th, 1938.

C. BUCKLEY, Town Clerk.

Council House, Old Hill, Staffs.

## Richard Murray Hospital, Blackhill, CO. DURHAM.

HOUSE SURGEON.

Applications are invited for the post of HOUSE SURGEON at the above Hospital, which has accommodation for sixteen surgical cases and sixteen maternity cases. The salary offered is £200 per annum, with board, apartments, and laundry in addition.

Applicants will require to have had previous experience as a House Surgeon in a General Hospital, and preference will be given to those with similar experience in a Maternity Hospital.

The appointment is for the period commencing 1st January, 1939, and terminating on the 31st December, 1939, and is not renewable.

The hospital is served by a Visiting and Consultant Surgeon and a Visiting and Consultant Obstetrician.

So far as the Maternity Unit is concerned, the person appointed will be subject to the administrative control of the County Medical Officer of Health.

The duties will include the medical supervision of an adjacent small Convalescent Home for mothers and young children.

Applications, stating age, qualifications, and experience, and accompanied by copies of not more than three recent testimonials, must be received by the undersigned not later than Monday, 21st November, 1938.

T. W. ADDISON,
Secretary to the Richard Murray Hospital Joint Board.

Shire Hall, Durham, 31st October, 1938.

## The Children's Hospital, KING EDWARD VII MEMORIAL, BIRMINGHAM, 16.

RESIDENT MEDICAL OFFICER.

Applications are invited for the above post. Candidates must have held a responsible Resident appointment at a teaching hospital. The salary is at the rate of £175 per annum, with board, residence, and laundry. The appointment is tenable for one year, and the officer is eligible for re-election for a second year.

The present holder has been appointed R.M.O. to the Hospitals Centre. The duties, therefore, are to be taken up on the 1st December, 1938, or as soon after that date as can be arranged.

Candidates, who must be fully qualified and registered, should send in their applications to the undersigned within the next week.

HAROLD F. SHRIMPTON, House Governor.

31st October, 1938.

## District Infirmary, Ashton-under-Lyne.

(200 Beds, mainly Surgical.)

Applications for the following vacancies are invited, viz.:—

RESIDENT SURGICAL OFFICER (Male), to take up duties about January 12th, 1939. Salary at the rate of £200, with the usual residential emoluments.

CASUALTY HOUSE SURGEON (Male), to take up duties on January 2nd, 1939. Salary at the rate of £180, with emoluments.

Two HOUSE SURGEONS, to take up duties on January 2nd, 1939. Salary at the rate of £150 each, with emoluments.

All appointments are for six months, with possibility of renewal. Candidates must be fully qualified and duly registered.

Applications, with copies of testimonials, should be sent to the undersigned.

FRANK OLIVER,
General Superintendent and Secretary.

October 31st, 1938.

## Leeds Jewish Hospital.

Wanted, RESIDENT MEDICAL OFFICER (Male). Salary £200 per annum. The appointment is for six months, but may be extended by mutual arrangement. Candidates must be fully qualified.

Applications, staging qualifications, experience, together with copies of testimonials, should be sent to the undersigned immediately.

LILY CURITZ (Secretary).

## The Kirk Duncanson Fellowship for MEDICAL RESEARCH.

The Council of the ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH are prepared to award the above Fellowship to the applicant who, in the opinion of the Council, furnishes satisfactory evidence of his ability for medical research.

Applicants must state the nature of the proposed research, the amount of time it is proposed to devote to it, and the place where it is intended to carry it out. If desired, the successful applicant would be granted facilities for conducting his investigations in the Research Laboratory of the College.

The value of the Fellowship for the first year will be £350, and a grant for expenses may be allowed. The successful candidate will be eligible for re-election and at the discretion of the Council the amount of the Fellowship may be substantially increased.

Applications must be sent to the Secretary, Royal College of Physicians, Edinburgh, 2, not later than 1st December, 1938.

## The General Hospital, Birmingham (THE BIRMINGHAM UNITED HOSPITAL).

Applications are invited for the post of MEDICAL REGISTRAR AND RESIDENT MEDICAL OFFICER. Candidates must be Graduates in Medicine of a University of the United Kingdom. Salary £155 per annum, with residence, board, and laundry.

The appointment will be made for one year in the first instance and will date from January 1st next.

Applications, with certificates of registration and copies of testimonials, should be sent by November 21st to the undersigned, from whom a list of duties should be obtained.

A. H. LEANEY, House Governor.

## County Borough of Huddersfield.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners (Ladies) who have had special experience in antenatal work and in the care of infants. Salary £500–£25–£700, initial salary according to experience.

The doctor appointed will be required to reside in the Municipal Maternity Home when the extensions in progress at present have been completed. A deduction will then be made from the salary for board, &c.

The post will be designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination before being appointed to the position.

Applications, staging age, full particulars regarding training, qualifications, and appointments held since qualifications, should be forwarded to the Medical Officer of Health, Public Health Department, Huddersfield, along with copies of two recent testimonials, so as to reach him not later than Thursday, November 17th, 1938.

Application forms are not provided.

SAMUEL PROCTER, Town Clerk.

Town Hall, Huddersfield, November, 1938.

## Oxford County and City Mental HOSPITAL, LITTLEMORE, Near OXFORD.

Applications are invited for the post of JUNIOR ASSISTANT MEDICAL OFFICER. Applicants must be Male (single), under thirty-five years of age, and duly qualified in Medicine and Surgery. Experience as Resident in a General Hospital essential, but previous Mental Hospital service unnecessary. Commencing salary £350 per annum, rising by annual increments of £25 to a maximum of £450, together with furnished apartments, board, laundry, and attendance, valued at £100 per annum. An additional £50 per annum will be paid when D.P.M. is obtained. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, stating age and full particulars of qualifications and experience, accompanied by copies of three recent testimonials, to be forwarded to the Medical Superintendent, not later than 25th November, 1938.

## City of Bradford INFECTIOUS DISEASES HOSPITALS.

ASSISTANT MEDICAL OFFICER is required for a period of one year. Salary £250 per annum, plus board-residence.

Form of application may be obtained from the Medical Officer of Health, Town Hall, Bradford, and should be returned to the undersigned not later than the 12th November, 1938.

N. L. FLEMING, Town Clerk.

Town Hall, Bradford, 27th October, 1938.

## The Royal Portsmouth Hospital, PORTSMOUTH.

(Six Resident Medical Officers.)

Applications are invited for the post of CASUALTY OFFICER (Male) qualified. Salary at the rate of £130 per annum, with board, &c. To commence 1st December, 1938.

Six months' appointment. Eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, &c., and copies of three recent testimonials to be sent to the undersigned on or before 16th November, 1938, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

## Middlesex County Council.

WEST MIDDLESEX COUNTY HOSPITAL,
Twickenham-road, ISLEWORTH.

Additional VISITING OPHTHALMIC SURGEON required, must be F.R.C.S. (Eng.) or recognised university Ophthalmology Diploma, and registered Medical Practitioner practising ophthalmology.

Fee three guineas per session. One session per week. Non-pensionable post, subject to three months' notice.

Written application, giving details of age, qualifications, and experience, should be sent to the undersigned in envelope endorsed "(B.3) Ophthalmic Surgeon," by 19th November, 1938.

C. W. RADCLIFFE, Clerk of the County Council.

Guildhall, Westminster, S.W.1, 29th October, 1938.

## Surrey County Council.

ASSISTANT MEDICAL OFFICERS.

Applications are invited for the appointment of Assistant Medical Officers. Applicants must possess a qualification in Public Health. The main duties will be in connexion with the School Medical and Maternity and Child Welfare Services, but the officers appointed will be required to undertake such other Public Health duties as may be allocated to them. They will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote their whole time to the work.

Salary £600 per annum, rising by annual increments of £20 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointments will be subject to the approval of the Ministry of Health and the Board of Education, to the successful candidates passing a medical examination, to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the Staffing Regulations of the Council, which provide, inter alia, that appointment may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed form, and sent to the County Medical Officer of Health, County Hall, Kingston-upon-Thames, from whom copies of the application form may be obtained, and to whom any inquiries relating to the appointment should be addressed.

Last day for receipt of application, Wednesday, 16th November, 1938.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUKLAND, Clerk of the County Council.

County Hall, Kingston-upon-Thames, 1st November, 1938.

## Saint Mary's Hospital.

SAINT MARY'S MUNICIPAL HOSPITAL. (1050 Beds.)

Applications are invited for the appointment of a JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER. Applicants must be single Gentlemen, duly qualified and registered, not exceeding thirty years, and must have had at least one year's experience of Hospital work. Experience in Anæsthetics will be an additional qualification. The appointment is limited to a term of one year, and the salary will be £250 per annum, with residential emoluments valued at £125 per annum. The appointment includes service at any institution belonging to the City Council, and will be subject to termination by one month's notice on either side A resident Medical Superintendent is in attendance.

Application forms may be obtained from and must be returned to the Medical Officer of Health, The Guildhall, Portsmouth, not later than Monday, 21st November, 1938.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.

The Guildhall, Portsmouth, 29th October, 1938.

## East Sussex County Council.

SOUTHLANDS HOSPITAL, SHOREHAM-BY-SEA.

ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from fully qualified Male registered Medical Practitioners (unmarried) for the post of Assistant Resident Medical Officer at Southlands Hospital, Shoreham-by-Sea, near Brighton. The appointment is for one year. Salary £300 per annum, with board, residence, and laundry. Preference will be given to candidates who have had special experience in obstetrics and gynæcology. The Hospital (350 beds) is a general hospital, under the administration of the East Sussex County Council. The duties of the post are mainly concerned with obstetrical cases (40 maternity beds), but there are general duties in addition.

Application should be made on a form obtainable from the undersigned at the County Hall, Lewes, and must be returned to him by Saturday, November 19th, 1938. It is desired that the selected applicant shall commence duty on the 1st January, 1939.

W. R. EDWARDS,
Deputy Clerk of the County Council.

County Hall, Lewes, 28th October, 1938.

## Aberdeen City District Mental Hospital.

JUNIOR ASSISTANT MEDICAL OFFICER required. Salary £300 per annum, together with board, lodging, &c. Apply Medical Superintendent, Kingseat, Newmachar.

## County Borough of Rotherham.

MEDICAL SERVICES COMMITTEE.

ALMA-ROAD HOSPITAL.

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Junior Assistant Resident Medical Officer at the Alma-road Hospital, Rotherham, at a salary of £180 per annum, together with the usual emoluments. The appointment will be for a period not exceeding twelve months, determinable by one month's notice on either side.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination.

The Hospital is a general training school for nurses and is a recognised school for the training of midwives. The medical staff is composed of visiting consultants, a medical superintendent, and four resident medical officers.

The person appointed will be required to act under the general direction of the Medical Superintendent.

Forms of application may be obtained from the Medical Officer of Health, Municipal Offices, Rotherham, and must be returned to the undersigned endorsed "Junior Assistant Resident Medical Officer" not later than noon on the 16th November, 1938.

CHAS. L. DES FORGES, Town Clerk.

Municipal Offices, Rotherham.

## Durham County Mental Hospital.

ASSISTANT MEDICAL OFFICER.

The Visiting Committee invite applications from duly registered Medical Practitioners for the appointment of Assistant Medical Officer at the Mental Hospital. Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, lodging, laundry, and attendance, valued at £135 per annum for superannuation purposes, plus £50 per annum for the diploma in psychological medicine. The appointment will be subject to the conditions of the Asylums Officers' Superannuation Act, 1909, and the successful candidate will be required to pass a medical examination.

Applications, with copies of three recent testimonials, to be forwarded to the Medical Superintendent, Winterton, Stockton-on-Tees, by 12th November, 1938.

## County Borough of Blackburn.

PUBLIC ASSISTANCE DEPARTMENT.

RESIDENT JUNIOR ASSISTANT MEDICAL OFFICER.

Applications are invited from Medical Practitioners (Male) for the appointment of a Resident Junior Assistant Medical Officer at QUEEN'S PARK HOSPITAL and INSTITUTION.

The Staff consists of a Resident Medical Officer, a Resident Assistant Medical Officer, a Consulting Surgeon, a Laboratory Assistant, and an X ray Attendant.

There is a separate Infirmary, a separate Mental Block, and a separate Hospital for children, and there is opportunity for experience in all departments, including Medical, Surgical, and Midwivery cases. An X ray apparatus is installed.

The person appointed will be required to devote his whole time to the duties, and also to act as may be directed by the Resident Medical Officer.

The appointment will be limited to a term not exceeding one year.

Salary at the rate of £200 per annum, together with board, apartments, and attendance.

Applications, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials, must be sent to the Public Assistance Officer, Public Assistance Offices, Cardwell-place, Blackburn.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn, 31st October, 1938.

## West Suffolk General Hospital,

BURY ST. EDMUNDS.
(112 Beds.)

Applications are invited for the post of HOUSE SURGEON. Duties include charge of surgical beds. Salary £180 per annum, with board, residence, and laundry. Applicants must be registered Practitioners.

Applications, stating age, experience, and nationality, with copies of three recent testimonials, to be sent to the Secretary. The appointment is for six months. The post will be vacant almost immediately as the present House Surgeon wishes to be released as soon as possible to go abroad. One other Resident Medical Officer.

E. E. HARDWICKE, Secretary.

October 31st, 1938.

## The Royal Hospital for Sick Children,

GLASGOW.

The Directors invite applications for appointment as a VISITING SURGEON to the Hospital. Honorarium £500, with Students' fees. Twelve copies of the applications and of relative testimonials must be lodged on or before 30th November, 1938, with the Subscriber, who will give any further information required. Canvassing is prohibited.

JAMES METHVEN, Secretary.

86, St. Vincent-street, Glasgow.

## Royal Infirmary, Preston.

CASUALTY OFFICER required (Male). Unmarried. 15,000 casualties per annum. Six months' appointment. Salary at the rate of £150 per annum, with board, residence.

Applications, stating age and qualifications, with copy testimonials, to be forwarded to Mr. JOHN GIBSON, Superintendent and Secretary.

## Staffordshire County Council.

STANDON HALL ORTHOPÆDIC HOSPITAL.
(120 Beds.)

HOUSE SURGEON (Female).

Applications are invited for the post of House Surgeon (Female) at the above Hospital, at a salary of £200 per annum, with full board and lodging. The appointment is for one year and is not renewable.

A month's holiday is allowed during the term of service.

Applications, stating age and qualifications, accompanied by three recent testimonials, must be delivered to the undersigned not later than the 10th November, 1938.

Candidates receiving no reply by the 26th November, 1938, may assume the vacancy filled.

H. L. UNDERWOOD, Clerk of the County Council.
County Buildings, Stafford, 24th October, 1938.

## Medical Superintendent, Tilbury

HOSPITAL, ESSEX. (92 Beds.)

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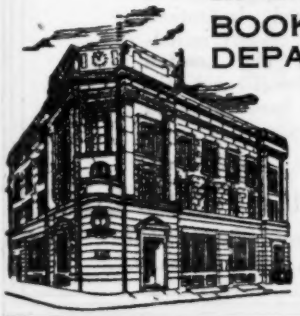

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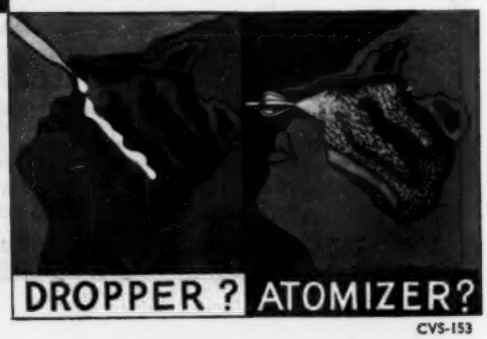


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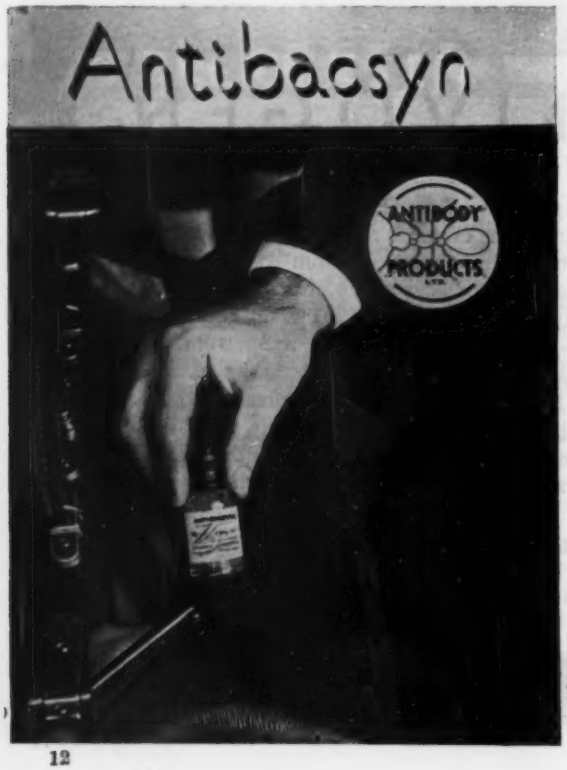


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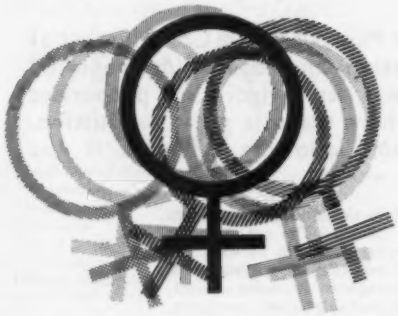

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*'I have used S.U.P. 36 . . . with great success in a variety of conditions ranging from acute pleurisy to septicæmia, and some other types of inflammation such as ascending phlebitis and acute fibrositis of the shoulder muscles . . .'*

Any physician wishing to make a trial with S.U.P. 36 is invited to write in for a sample and descriptive literature.

**S. U. P. 36**

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Sup/S/51

# In Gastro-Intestinal Disorders

Allenburys

**BEEF JUICE**

In such conditions it is a primary consideration that the food should be light and unirritating. In gastric and duodenal ulceration and in the dyspepsias, Allenburys Beef Juice may safely and advantageously be given, where beef tea would often increase the pain and have a harmful effect. Because of its high protein and vitamin content, it provides a valuable means of keeping up a patient's strength.

**In bottles at 1/9 and 3/- each.**

***Descriptive literature and clinical trial sample will be sent on application.***

ALLEN & HANBURYS LTD., London, E. 2 Telephone: Bishopsgate 3201 (12 lines) Telegrams: "Greenbacks Beef London"

# TERPEROIN

(SQUIRE)

Terperoin Elixir presents the therapeutic properties of Terpin Hydrate, Codeine, and Oil of Pine in a palatable and reliable form.

It is especially useful in the troublesome cough of

**PULMONARY PHTHISIS, EMPHYSEMA, LARYNGEAL CATARRH, and ACUTE and CHRONIC BRONCHITIS**

A very soothing Linctus for irritating Night Coughs

*One or two teaspoonfuls—undiluted—usually give instant relief*

**In 4-oz., 8-oz., and 16-oz. bottles**

*Also in Pastille form*

## SQUIRE & SONS, LTD.

*Chemists on the Establishment of the late King George V*

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Telephone: MAYFAIR 2307 (2 lines) Telegrams: SQUIRE, WESDO, LONDON, W.1

# For Effective Control of Pain

AMONG the many and diverse analgesics which have been evolved by modern chemical research, acetyl-salicylic acid retains its reputation as one of the safest and most effective. Its tendency to liberate salicylic acid—the irritant properties of which are well known to physicians—has, however, caused many to hesitate to employ it as widely as it deserves. Exhaustive trial in hospital and private practice proves that "Alasil" definitely solves the problem of administering acetyl-salicylic acid in an effective form, being free from the risk of irritating the stomach or bowels or of causing general reactions.

*A supply for clinical trial with full descriptive literature sent free on request.*

In "Alasil" the desirable therapeutic effects of acetyl-salicylic acid are well exhibited by its calcium acetyl-salicylate moiety, while the presence of "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid, obviates any tendency to gastric irritation. The superior absorbability of "Alasil" over ordinary salicylate compounds and its freedom from the risk of liberating free salicylic acid in the stomach have been well proved by careful experimentation. "Alasil" can be prescribed with perfect safety to patients of all ages and in larger doses than ordinary salicylate compounds.

A. WANDER, LTD., Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
*Laboratories and Works:* KING'S LANGLEY, HERTS.

# ALASIL

M288

*RECENT ADVANCES IN*

*THE TREATMENT OF INFLUENZA*

RESEARCH on the filtrable viruses has proved that they are present both in the common cold and Influenza, but there is no evidence that they are the causal factor.

On the other hand their presence has been proved to increase and activate the pathogenicity of B. Pfeiffer and other organisms associated with catarrhal conditions which under ordinary conditions are normal inhabitants of the naso-pharynx.

The rational method of treatment is therefore inhibition of growth of the organisms locally to prevent the systemic disturbance arising from their toxins.

Pineoleum Brand Inhalant inhibits the growth of organisms associated with nasal catarrh and is particularly selective to Bacillus Influenzæ; at the same time it protects the mucous membrane from mechanical irritants and prevents secondary infections.

*For special Brochure "Recent Advances in the Study of the Common Cold and Influenza and their Bearing on Treatment" and clinical sample apply to British Distributors—*

**CHESEBROUGH MANUFACTURING CO. (CONS.)**
**VICTORIA ROAD, WILLESDEN, LONDON, N.W.10**

CONVENIENT - SEDATIVE - SPEEDY - SAFE

# PYRIDIUM

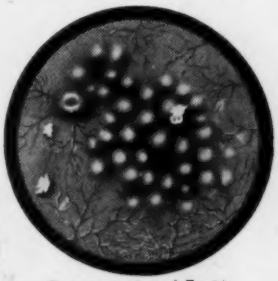
ENSURES THE RAPID BANISHMENT OF GENITO-URINARY SYMPTOMS

Two Pyridium tablets taken *at the first* sign of urgency, pressure spasm, burning, or other symptoms of irritation of the urinary tract, will often bring relief in 10 *to* 30 *minutes*. Repeat if necessary in 2 to 4 hours. Ambulatory patients with recurring symptoms should carry Pyridium tablets with them on all occasions. Pyridium is not a narcotic; it has no constitutional side-effects; it exerts a definite analgesic effect upon irritated or inflamed mucous membranes of the urinary tract; it may be used simultaneously in conjunction with other lines of treatment, if the physician in charge of the case so desires.

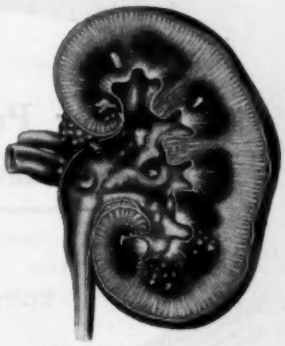
Pyridium effectively shortens the period of treatment of Cystitis, Pyelitis, Prostatitis, Urethritis, Vaginitis, etc.

SAMPLES AND LITERATURE ON REQUEST.

MENLEY & JAMES LTD., 64, Hatton Garden, London, E.C.1



Cystoscopic view of Cystitis.



Inflammation and Suppuration in Pyelitis.

# COLITIS

Colitis - Scourge of Civilisation

## —Chronic

(Simple Mucous, Muco-Membranous, Post-Dysenteric.)

Alternating intervals of constipation and diarrhœa often occur in cases of colitis. Kaylene-ol is applicable in either phase. Its soothing and adsorptive actions combat the irritative diarrhœa, and its softening and lubricating actions counteract constipation during the intervals.

**DOSE—KAYLENE-OL: 1 or 2 dessertspoonsful three times a day, half hour before meals, or in mild cases half hour before breakfast and at bedtime.**

Kaylene-ol c̄ Phenolphthalein (0.5 per cent.) is taken when constipation is particularly troublesome. Dosage as for Kaylene-ol.

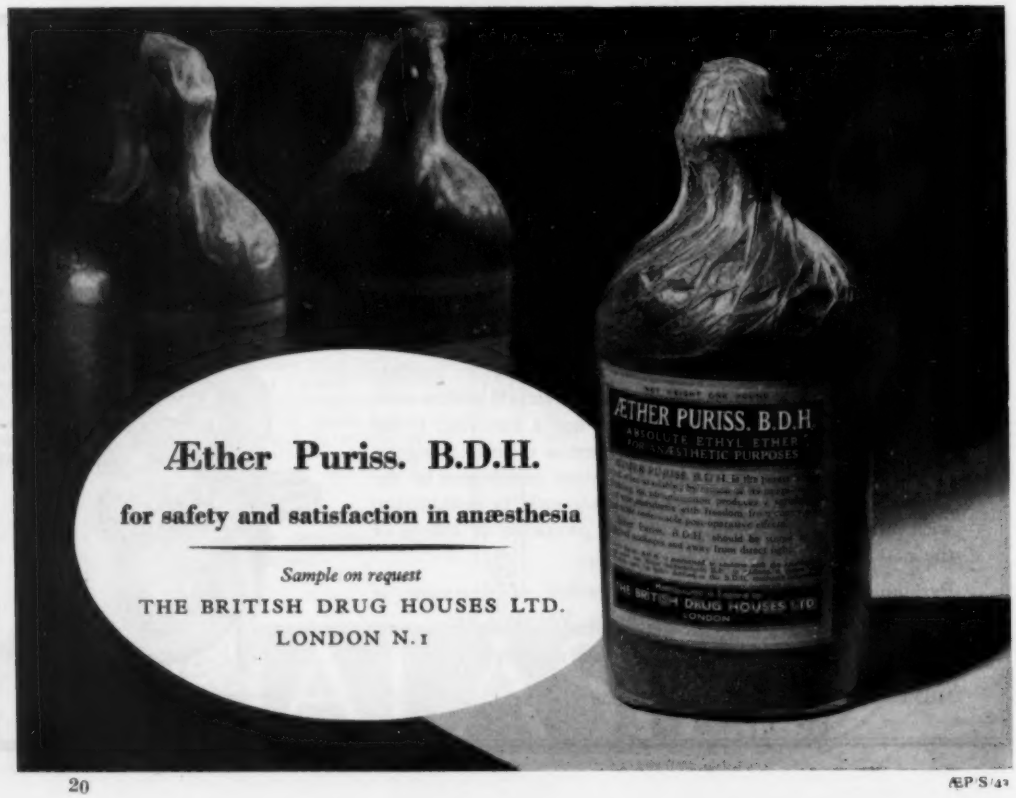
# KAYLENE-OL

**(KAYLENE BRAND OF COLLOIDAL KAOLIN WITH HIGHLY VISCOUS LIQUID PARAFFIN)**

*Samples and literature from the manufacturers:*

**KAYLENE, LIMITED,** *Sole Distributors:* **ADSORBENTS, LTD.**

**WATERLOO ROAD, LONDON, N.W.2.**




**Æther Puriss. B.D.H.**

**for safety and satisfaction in anæsthesia**

*Sample on request*

THE BRITISH DRUG HOUSES LTD.

LONDON N.1

# *CRUNCHY FOODS and health*

Most physicians agree that the soft foods of the modern diet endanger the perfect functioning of the digestive system, and that crunchy foods should have their place in everyone's diet.

The necessity for masticating crisp foods induces a more abundant flow of saliva, and this is generally held to facilitate the work of the digestive tract. Crunchy foods are therefore not only easier to digest in themselves; they also assist in the digestion of the softer foods eaten in conjunction with them.

Crunchy foods eaten regularly have also this advantage: they tend to induce the habit of proper mastication, so that soft food also will be more thoroughly chewed.

Ryvita is a dry, crisp food now frequently recommended by practitioners to their patients. Its consistency makes complete mastication a necessity, and it can be eaten with every meal. A complimentary carton of Ryvita will gladly be supplied on request.

THE RYVITA COMPANY LIMITED

*96-98 Southwark Street, London, S.E.1*

*Bakeries in Birmingham*

# THE PLACE OF BRAN IN THE TREATMENT OF COMMON CONSTIPATION

WHEN dealing with a case of common constipation traceable to a deficiency of "bulk" in the diet, the first thought is naturally: "How can the daily intake of bulk most *conveniently* be increased?"

Fruit and vegetables, of course, supply a partial answer to the problem — but it is not infrequently found that these foods alone are not a sufficient corrective unless eaten in unappetisingly large quantities.

For this reason many nutritional authorities today advise giving prepared wheat bran in the pleasant form of Kellogg's All-Bran.

### *An attractively crisp breakfast cereal*

All-Bran is an attractively crisp cereal which most patients find a pleasant addition to their normal breakfast menu. The fibrous bulk in All-Bran is of the same type as that derived from vegetables and fruit, but has the advantage of being less easily broken down during digestion, and its action is therefore more effective and thorough. All-Bran is, moreover, an excellent source of both Vitamin B and iron, which add greatly to its dietetic value.

All-Bran is intended to be eaten daily, like an ordinary breakfast cereal. The great value of All-Bran is that it absorbs water like a sponge. This water-softened mass gently but effectively aids elimination. Eaten regularly, it promotes a thorough evacuation of the bowel-contents in a natural manner that gives real relief and freedom from strain.

All-Bran may with advantage be prescribed in all cases where additional bulk in the diet is indicated. It may be eaten with milk or cream or cooked into scones, bread, etc. It may also be sprinkled over salads or other foods. To assure maximum effectiveness plenty of fluid should be taken, preferably between meals. All-Bran is obtainable from all reliable grocers. A packet will be sent free on request to any qualified practitioner. Inquiries should be addressed to: Kellogg Company of Great Britain Ltd., Stretford, Manchester.

***Kellogg's All-Bran is most palatable served with plenty of milk or cream. Many like it sprinkled over their favourite breakfast cereal.***

*ISIS holding a Figure of Osiris between her wings.*

# Before and After Pregnancy

THE results of modern ante-natal care have emphasized the importance of proper nutrition of the expectant mother, in securing a normal pregnancy, labour and puerperium and in endowing the infant with an initially sound constitution.

The use of 'Ovaltine' throughout pregnancy goes far towards ensuring this ideal state of nutrition. 'Ovaltine' is a complete food, containing well-balanced proportions of protein, carbohydrate and fat, and is rich in the vitamins A, B (complex) and D and in readily assimilable calcium, phosphorus and iron. Quickly available energy is supplied by its high maltose content.

'Ovaltine' is delightful to the taste and appeals to the often capricious appetite of the pregnant woman. It is so readily digestible that unsettled digestion does not preclude its use.

'Ovaltine' given daily during pregnancy, definitely ensures that the foetus obtains sufficient nourishment, while sparing the maternal tissues from dangerous deprivation. During lactation its use enriches the milk and permits the mother to continue adequate feeding until the normal time for weaning occurs. Its tonic stimulating properties assist the general well-being of the mother.

**'OVALTINE'**
**TONIC FOOD BEVERAGE**

*A liberal supply for clinical trial sent free on request.*

A. WANDER LTD.,
184, Queen's Gate, London, S.W.7
Laboratories & Works: King's Langley, Herts.

M286

# High Blood Pressure Metabolic Disorders and the Anaemias

## constitute a "tripod" of Modern Disease

*By dilating the peripheral blood vessels*, Dr. Buergi's preparation of chlorophyll ('Phyllosan' tablets) becomes a therapeutic weapon in the treatment of high blood pressure. As it also *augments the force of the heart beat*, the circulation is adequately maintained.

*By stimulating the metabolic exchanges*, Dr. Buergi's preparation exercises a *revitalizing* effect upon the human organism. The lay expression "*vitality*" has received a technical rechristening in the term "*metabolism*."

To speed up the latter is to renew the former. Bodily sluggishness and mental retardation are nowadays linked up with low basic metabolic rates—as for example, in myxœdema.

Finally, by reason of its chemical affinities to hæmoglobin and its "catalyst" action, chlorophyll is able to *stimulate the blood-forming apparatus*. The indications for the use of 'Phyllosan' tablets in anæmic conditions are soundly rooted in laboratory tests and abundantly confirmed in the clinic.

**Members of the Medical Profession are invited to apply for Free Trial supply of 'Phyllosan' tablets**

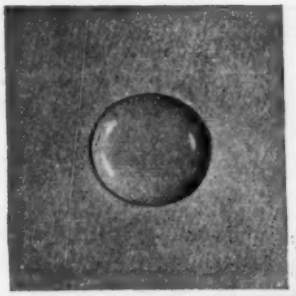
and for a pamphlet entitled
"Hyperpiesia, Metabolic Disorders and the Anaemias,"
a Review of Experimental and Clinical Evidence for the use of

# 'PHYLLOSAN'

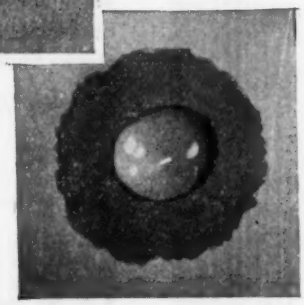
BRAND TABLETS

## in Modern Therapeutics

NATURAL CHEMICALS LTD., 12 CLIPSTONE STREET, LONDON, W.1



# A Triumph of Emulsification



THE OILY RING AROUND THIS DROP TELLS THE STORY

The ring around the drop tells the story. A drop of Agarol on blotting paper holds firmly together. Try this with a poor emulsion and you will soon see the mineral oil being taken up by the blotting paper, forming a greasy ring around the drop.

For dependable efficacy in the treatment of constipation and allied disorders Agarol — mineral oil, agar-agar and phenolphthalein emulsion — has attained a reputation all its own.

Only the finest and purest ingredients are used in Agarol. Its exceptional palatability, secured without artificial flavouring, renders it acceptable to both children and adults. Agarol contains no alcohol and no alkali and, being devoid of sugar, is particularly suited to diabetic cases.

**Agarol**

BRAND COMPOUND

**FOR CONSTIPATION**

Supplied in bottles containing 4½, 7½ and 17 ounces.

Agarol is not advertised to the public.

William R. Warner & Co. Ltd., Power Road, Chiswick, London, W.4.

# IN LOSS OF APPETITE

When anorexia is a factor Neuro Phosphates (Eskay Brand) may be of exceptional value.

Its stomachic properties stimulate the appetite; yet the characteristic bitterness of its strychnine content has been masked so effectively that Neuro Phosphates is acceptable to the most difficult patient.

Each dose (two teaspoonfuls) contains in acid state:—

| | |
|---|---|
| Sodium glycerophosphate | 2 grs. |
| Calcium glycerophosphate | 2 grs. |
| Strychnine glycerophosphate | $\frac{1}{64}$ gr. |

# NEURO PHOSPHATES

(ESKAY BRAND)

*A Palatable and Efficient Tonic*

M&J

# THE SAFE ANTI-ARTHRITIC

Safety in an anti-arthritic is of paramount importance—especially in view of the grave results that have been reported following the use of analgesics such as cinchophen, amidopyrine, and derivatives of quinoline or barbituric acid.

'Calsiod' (the calcium salt of o-iodoxybenzoic acid) is safe and non-habit-forming even when taken over a long period. No serious reactions and no damage to liver or kidneys have ever been reported following its use.

For rheumatoid conditions o-iodoxybenzoic acid has been described as "the best single drug which has so far been developed."

Jeffery and Burns, *Northwest Medicine*, Dec., 1927

# 'CALSIOD' TABLETS

BRAND

*Distributed by* **MENLEY & JAMES LTD.**

FOR SMITH KLINE & FRENCH LABORATORIES

# SUSPECTED AGRANULOCYTOSIS

'Pentnucleotide' has become the standard therapy in agranulocytosis—a condition in which promptness of treatment is vitally important. Therefore, when the diagnosis of any leucopenic state is in doubt, the early administration of 'Pentnucleotide' would seem to be justified.

The timely initiation of this form of treatment in adequate doses may mean the difference between success and failure.

Further information will be sent to any interested physician.

# 'PENTNUCLEOTIDE'

*A mixture of the sodium salts of pentose nucleotides for intramuscular use.*

M&J

## "MANY A COLD MAY BE ABORTED . . ."

Proetz has suggested that "many a cold may be aborted if the nasal circulation can be re-established early before violent irritation occurs."

'Benzedrine' Brand Inhaler, being a volatile vasoconstrictor, has precisely this effect, and its vapour penetrates to areas usually inaccessible to liquid inhalants. It promptly reduces engorgement wherever it exists in the upper respiratory tract and assists in re-establishing and maintaining nasal ventilation.

In prescribing 'Benzedrine' Brand Inhaler for head colds, the physician is providing an effective first-aid remedy which will prove of service at all times.

# 'BENZEDRINE' INHALER

BRAND

*Indicated in head colds and nasal congestions generally.*

**64, HATTON GARDEN, LONDON, E.C.1.**

**OWNERS OF THE TRADE MARKS**

# The Vicious Circle in Hæmorrhoids

## *Effectively Broken*

**First there is marked relief from pain and irritation. The suppositories afford this alleviation not by narcotic or analgesic drugs but by their emollient and protective effect.**

**Under this soothing influence inflammation subsides; thus congestion is reduced; then pressure-pain disappears and the patient obtains genuine relief from the most distressing symptoms. The tendency to bleeding diminishes as venous stasis is relieved and the return circulation is improved.**

**By softening the fæces the suppositories promote easy evacuation; so the patient loses his fear and is helped back to regular bowel action.**

**This sequence of good effects follows without the occurrence of any unpleasant, dangerous or systemic disturbance.**

**In this entirely mechanical and rational way, Anusol Suppositories provide freedom from the distressing symptoms of hæmorrhoids and other inflammatory and painful conditions in the ano-rectal region.**

# ANUSOL
BRAND

## Hæmorrhoidal Suppositories

*Available also in Ointment form in collapsible tube with nozzle.*

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# ELI LILLY AND COMPANY LIMITED

*Pharmaceutical and Biological Products*

TRADE MARK **'MERTHIOLATE'** BRAND

*Sodium Ethyl Mercuri Thiosalicylate*

## *In the Operating Room*

'Merthiolate' brand sodium ethyl mercuri thiosalicylate is an antiseptic with properties in keeping with the highest standards of aseptic surgical technique.

Tincture 'Merthiolate,' an alcohol-acetone-aqueous solution, is particularly suitable for preoperative preparation of the intact skin.

Solution 'Merthiolate,' an isotonic, aqueous dilution, 1:1,000, is recommended for open wounds and for application to membrane surfaces.

*Prompt Attention Given to Professional Inquiries*

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Distributing Agent in Britain for

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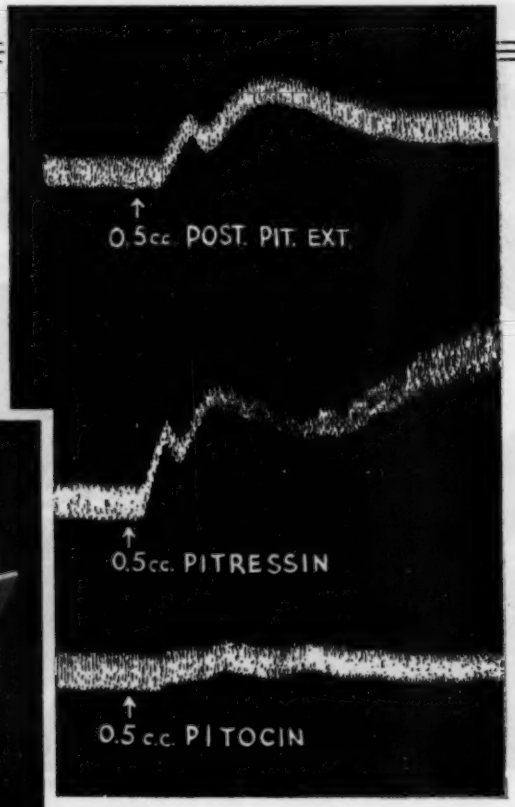
THESE kymographic tracings illustrate one of the important therapeutic advantages of 'Pitocin'—the fact that its injection is not followed by a rise in blood-pressure. Blood-pressure tracings were made on an anæsthetized dog which was given all three preparations intravenously. Note that ordinary post-pituitary extract causes a marked rise in blood-pressure. This is due to its content of pressor hormone (clinically available in purified form as 'Pitressin') the blood-pressure-raising action of which is shown by the middle tracing. Note (lower tracing) that 'Pitocin' does not appreciably affect blood-pressure.



# 'PITOCIN'

*The Oxytocic Principle of the Posterior Pituitary Gland*

**TEN years ago 'Pitocin' was introduced to the medical profession. The development of 'Pitocin' made it possible for the first time to administer the posterior pituitary oxytocic hormone without any significant amount of pressor hormone—and with only a minimum of extraneous proteins. The clinical advantages of this product in hypertensive patients and in post-partum hæmorrhage were soon recognized. During the past ten years an increasing number of prominent obstetricians have adopted 'Pitocin' for routine use. They prefer it not only for cases of nephritis, eclampsia and pre-eclampsia, but for every obstetrical patient. Its exceptional purity, standardized potency, and general reliability make it the outstanding oxytocic preparation.**

● *Supplied in boxes of six and twelve ampoules of 0·5 c.c. and 1 c.c. Further details will be supplied on request.*

**PARKE, DAVIS & CO., 50 BEAK STREET, LONDON, W.1**

*Laboratories: Hounslow, Middlesex.* *Inc. U.S.A., Liability Ltd.*

# IRON in Hæmopoietic-therapy

Full hæmatinic action of these Burroughs Wellcome & Co. Iron Products is assured by the rapidity and completeness with which the ferrous ions are released upon ingestion. Stability and therapeutic activity are amongst their outstanding qualities.

## TRADE MARK 'TABLOID' BRAND BLAUD PILL

Produces its full hæmatinic effect with the minimum of gastric disturbance.

*Gr.* 5 *(representing* 22·5% *of ferrous carbonate)*
*Bottles of* 100 *sugar-coated products,* 1/-

*Gr.* 10 *(representing* 22·5% *of ferrous carbonate)*
*Bottles of* 100 *sugar-coated products,* 1/3

## TRADE MARK 'TABLOID' BRAND BLAUD PILL AND COPPER

The ideal combination for those Medical Men who prefer to administer the iron salt in association with copper.

℞ Pil. Ferrugin. (Blaud), gr. 10 (0·648 gm.)
(=22·5% Ferri Carbonatis)
Cupri Sulphatis, gr. 1/100 (0·00065 gm.)

*Bottles of* 100 *sugar-coated products,* 2/-

## TRADE MARK 'TABLOID' BRAND FERROUS CHLORIDE CITRATED (CITRATED FERROUS CHLORIDE B.P.)

Resists oxidation and deliquescence under all climatic conditions.

*Gr.* 3. *Bottles of* 100 *sugar-coated products,* 3/4

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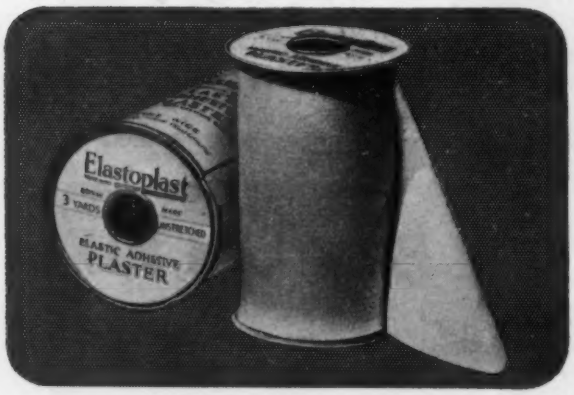
# 'Elastoplast' *elastic adhesive* Plasters

## are rolled with the adhesive surface *inwards*;

***they are clean to handle and to apply, and very convenient when short lengths only are required.***




'Elastoplast' Plasters consist of lightweight cotton cloth, spread to the edges, flesh-coloured and rolled on snap spools. They are designed for use as plasters or as dressings for wounds, operation incisions, skin affections, etc. Supplied in all widths from ½″ to 4″, 5/6 yards long.

# 'Elastoplast' *elastic adhesive* Bandages

## are rolled with the adhesive surface *outwards*

***to conform with accepted bandaging technique***

Made from heavy cotton cloth, selvedge-edged, rolled on card cores, they are suitable for use as bandages for varicose legs, sprains, dislocations, fractured ribs and other cases where complete encirclement of the limb or trunk, with compression, is necessary. Supplied in all widths from 2″ to 6″, 5/6 yards long.

*NOTE: If specially required, 'Elastoplast' Bandages can be supplied with the adhesive inwards.*

# Elastoplast BANDAGES & PLASTERS

TRADE MARK

**Made by T. J. Smith & Nephew, Ltd. London, Hull, Manchester, Glasgow.**

*In all quarters of the globe*

NOT only in countries of the Temperate Zone, but within the Arctic Circle, as well as in the Torrid Regions

**Antiphlogistine**
BRAND TRADE MARK DRESSING

is known and prescribed regularly by the Medical Profession.

It is the best-known method for the application of prolonged moist heat for the alleviation of *INFLAMMATION*, *CONGESTION* and *PAIN*.

*Sample on request*

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**Made in England**

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**We have Pleasure in Announcing a Further Reduction in the Price of**

## 'PROLUTON'

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| 2 mg. | Box of 3 amp. | 8/- |
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## Price reduction

1 cc. ampoules of 1 mg. and 5 mg.

Lower strength approx. 50%
Higher strength approx. 20%

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## Simplify the Technique of Infant Feeding by using

# Allenburys Progressive System

### ALLENBURYS SYSTEM EMBODIES THE FOLLOWING ADVANCES IN THE SCIENCE OF INFANT FEEDING

(1) **Humanised Casein : lactalbumen ratio.**
(2) **Intimate incorporation of Dextrin-Maltose,** the benign starch-free mixture of non-fermenting carbohydrates.
(3) **Homogenised Cream** in reconstituted Milk Foods.
(4) **Prophylaxis of Scurvy.** Every tin of Allenburys Foods bears, and has borne in the past, explicit instructions for daily administration of vitamin C.
(5) **Prophylaxis of Rickets.** Calcium : Phosphorus ratio adjusted. 560 units of vitamin D per quart reconstituted. **Independent biological assay of antirachitic potency.**
(6) **Prophylaxis of Anæmia.** The reconstituted foods contain 4 parts per million of available iron.

**Allenburys System provides every known Nutritional Requirement of the Infant**
It enables the physician to replace unreliable home-made milk mixtures with readily prepared infant foods which eliminate the risk of enteral infection, and provide easily digested, scientifically balanced meals for babies at every stage in their development.

## ALLENBURYS Humanised MILK FOOD No. 1 (Entirely Free from Starch)

The best first artificial food because it resembles breast milk closely in composition and in the ease with which it is digested.

Composition when reconstituted by dilution (1-6) with water as instructed on tins:

| Fat | Casein | Lactalbumen | Lactose | Dextrin Maltose | Ca as CaO | P. as $P_2O_5$ | Fe. parts per million | Vitamin D per fl. oz. |
|---|---|---|---|---|---|---|---|---|
| 3.1% | 1% | 0.7% | 7.3% | 3.3% | 0.09% | 0.16% | 4 | not less than 14 units |

This food is intended for use from birth to 3 months, or for longer periods in dyspeptic infants, who tolerate it readily.

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[*See also pp.* 14 & 17.]

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| Carbohydrates | absent | 6.2% | Carbohydrates | absent | 9.1% | Carbohydrates | absent | 11.8% |
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Telephone: Mundesley 94 and 95 (2 lines)

The buildings face S.S.W. and are sheltered from the sea by a pine-clad ridge. The sunshine record and dry air complete a perfect site. The medical equipment is of the latest kind, and there is a day and night nursing staff.

**TERMS FROM 7½ GUINEAS WEEKLY**

# ST. ANDREW'S HOSPITAL

## FOR MENTAL DISORDERS,

## NORTHAMPTON

*FOR THE UPPER AND MIDDLE CLASSES ONLY.*

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 120 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble, temporary patients, and certified patients of both sexes, are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

## WANTAGE HOUSE

This is a Reception Hospital, in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the most modern treatment of Mental and Nervous Disorders. It contains special departments for hydrotherapy by various methods, including Turkish and Russian Baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical Baths, Plombières treatment, &c. There is an operating Theatre, a Dental Surgery, and X-ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High Frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research.

## MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupation therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

## BRYN-Y-NEUADD HALL

The Seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout fishing in the park.

At all Branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard court), croquet grounds, golf course, and bowling greens. Ladies and gentlemen have their own gardens and facilities are provided for handicrafts such as carpentry, &c.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

# CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

***For the treatment of MENTAL DISORDERS.***

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens. Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

**The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.**

# FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Coine, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

*For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9*

# THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

*Med. Supt.:* GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

# PRIOR PLACE SANATORIUM

## HEATHERSIDE, CAMBERLEY, SURREY.

## FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

# THE MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5.

Telephone: RODney 3841

A CLINIC instituted by the London County Council for treatment of Nervous and Curable Mental Disorder. Voluntary patients *only* received.

New Out-patients.—Men: Mondays and Thursdays, 2 P.M. Women: Tuesdays and Fridays, 2 P.M. Children: Mondays and Fridays, 10 A.M. In-patients (*a*) 235 beds (both sexes) in wards or separate rooms, including 35 beds in a ward of King's College Hospital which is in use as a temporary annexe of the Maudsley Hospital; (*b*) a special ward (including some private rooms) for those patients of each sex who are paying the full cost and are otherwise suitable. TERMS—£5 a week, but in the case of patients with a legal settlement in the County of London a less sum may be charged according to means.

Terms include (with rare exceptions) all forms of treatment, for which there are exceptional facilities as there is a Staff of Consultant Specialists, and the Central Laboratory of London County Mental Hospitals is attached to the Hospital. Inquiries of EDWARD MAPOTHER, M.D., F.R.C.P., F.R.C.S., Medical Superintendent.

# THE ROYAL EARLSWOOD INSTITUTION

## FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

*FOR THOSE REQUIRING CONTROL* with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

*RECREATIONS:* Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344; or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4, *'Phone:* CITY 4697.

# PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

**Telegrams: "Alleviated, London."** **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

# THE OLD MANOR SALISBURY

*A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.*

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 2251.

# VALE OF CLWYD SANATORIUM

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

# NORTHUMBERLAND HOUSE

GREEN LANES,

## FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

*Telephone:* Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

# CRICHTON ROYAL, DUMFRIES

## For NERVOUS AND MENTAL DISORDERS

This hospital has every facility for complete investigation of the above conditions, and provides all forms of modern treatment, including psychotherapy, physiotherapy, occupational and recreational therapy. Cases of alcoholism and drug addiction are admitted. The Physiotherapy Department has separate units fully equipped for X-ray work, heliotherapy, short-wave therapy, electro-therapy, and hydrotherapy (swimming bath, prolonged baths, Scotch and Vichy douches, Plombières treatment, electric and Turkish bath cabinets, etc.). There is a fully equipped gymnasium under qualified instructors. Facilities are provided under special recreational therapists for all indoor and outdoor games, including golf course, cricket, football and hockey grounds, lawn tennis and squash courts, croquet and bowling greens.

The Hospital has its own Church, Library, Cinema and Hairdressing Saloon. Terms include regular motor drives.

Private rooms, suites, or villas are available, and special nurses can be provided. The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens and orchards.

As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

*For prospectus, necessary forms, and further information apply to:—*

Physician Superintendent, **P. K. McCowan**, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119.

# COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

# CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

*Resident Physicians*—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

*Telephones*—STARCROSS 59 and TEIGNMOUTH 289

# CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

# HAYDOCK LODGE,

## NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

# MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

# CLARENCE LODGE

## CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

**HOME FOR TWELVE MENTAL PATIENTS (LADIES).**

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

*Station:* Clapham Common Tube

*Phone:* Tulse Hill 4918

Apply MISS THWAITES.

# STRETTON HOUSE,

**Church Stretton, Shropshire.**

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

# CITY OF LONDON MENTAL HOSPITAL

**Near DARTFORD, KENT.**

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

# FENSTANTON

**Christchurch Road, Streatham Hill, S.W.2**

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

*Apply:* Dr. MADELINE R. LOCKWOOD, *phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

## NERVOUS & MENTAL AFFECTIONS

*Ladies only received*

# The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

# RUSSELLS

**Hemel Hempstead Road,**

**WATFORD**

**Telephone: WATFORD 5917**

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

# HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

**THE CLINIC**

**20 Devonshire Place**
**London, W.1**

*Tel.: Welbeck 4444 (20 lines)*

**A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES**

Fees 10 gns. to 18 gns. per week (Average—14 gns.). 8 Operating Theatres. 150 State Registered Nurses. 2 Resident Medical Officers (for emergencies).
Patients only received under the supervision of their own Medical Practitioner.
Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

**Smedley's**
Great Britain's Greatest Hydro
**Matlock**

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.
*Resident Physicians:* G. C. R. HARBINSON, M.B., B.Ch., B.A.O.(R.U.I.), H. RHYS DAVIS, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.**
*Illustrated Brochure C.J. on request.*
*Phone:* Matlock 17 (3 lines). *Grams:* Smedleys, Matlock.

**RHEUMA SPA, KINMEL HALL,**
**ABERGELE, NORTH WALES**

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

*IDEAL WINTER QUARTERS—REDUCED RATES*

## ROYAL NAVAL DENTAL SERVICE

Applications are invited for appointment to Commissions as DENTAL OFFICERS in the Royal Navy.

Candidates, who must be British subjects below the age of twenty-eight years, must hold the Degree or Diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts. Unmarried candidates are preferred. No examination in professional subjects will be held, but candidates will be required to attend at the Admiralty for interview, and for physical examination as to their fitness for service in any part of the world.

Successful candidates will be appointed to Short Service Commissions as Surgeon-Lieutenants (D) and will receive a grant of £50 towards the cost of providing the necessary uniform on entry. Vacancies in the permanent list will be filled by selection from among officers holding Short Service Commissions who desire to make the Royal Naval Dental Service their permanent career. Officers not transferred to the Permanent List will, on the termination of their short service engagement after six years' service, be eligible for a gratuity of £1000.

Opportunities are available for officers on the Permanent List for post-graduate study. The assistance of private income is not necessary for the purpose of supplementing official pay and allowances.

Naval Dental Officers are included in the Scheme for Marriage Allowance under the same conditions as for other Naval Officers.

Application forms and copies of the regulations for entry and conditions of service, rates of pay, and allowances, &c., may be obtained from the MEDICAL DIRECTOR-GENERAL OF THE NAVY, Admiralty, S.W.1, and from the Deans of Dental Schools.

## Borough of Wimbledon.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER (Male).

Applications are invited for the above appointment from qualified and registered Medical Practitioners under thirty-five years of age, having at least three years' experience since qualification. Applicants should possess the D.P.H., and experience of School Medical work and general Public Health work is necessary.

The officer appointed will be required to reside in the Borough, to devote his whole time to his official duties, and to work under the direction of the Council's Medical Officer of Health.

The commencing salary is £600, rising by annual increments of £25 to a maximum of £700 per annum. The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the passing of a medical examination.

Application forms can be obtained from the Medical Officer of Health, Town Hall, Wimbledon, to whom they must be returned, with copies of three recent testimonials, not later than first post on Monday, 21st November.

HERBERT EMERSON SMITH, LL.B., Town Clerk.
Town Hall, Wimbledon, S.W.19, 1st November, 1938.

## Metropolitan Borough of Lambeth.

DEPUTY MEDICAL OFFICER OF HEALTH.

The Lambeth Borough Council invite applications from fully qualified Medical Practitioners for the appointment of Deputy Medical Officer of Health for the Borough at an inclusive salary of £840 per annum, rising by annual increments of £40 to a maximum of £960 per annum.

Candidates must not be more than forty years of age on the 17th November, 1938, and must possess the qualifications prescribed by the Public Health (London) Act, 1936, and the Sanitary Officers Order, 1926. The gentleman appointed will be required to devote the whole of his time to the duties of the office, to contribute to the Council's Superannuation Fund, and to submit himself to the Council's Doctor for examination, the appointment being subject to such Doctor's report being satisfactory. The appointment will also be subject to the approval of the Minister of Health.

Applications on forms to be obtained from the undersigned, endorsed "Deputy Medical Officer," accompanied by copies of three testimonials of recent date are to be delivered by noon on Monday, the 21st November, 1938.

Canvassing either directly or indirectly will disqualify a candidate.

O. L. ROBERTS, Town Clerk.
Lambeth Town Hall, Brixton-hill, S.W.2, 28th October, 1938.

## Woolwich and District War Memorial HOSPITAL, Shooters-hill, London, S.E.18.

GENERAL HOSPITAL (112 Beds.)

The Board of Management invites applications from suitably qualified candidates for the following appointments:—

(*a*) RESIDENT SURGICAL OFFICER.—Applicants must have special knowledge of surgery. This appointment will be for twelve months with effect from November 20th, 1938, and it is desirable that candidates shall possess the Fellowship of one of the Royal Colleges of Surgeons. The salary will be £200 per annum, plus board, residence, and laundry: the appointment is renewable for a further period of twelve months if approved by the Board of Management.

(*b*) HOUSE PHYSICIAN.—This appointment will be for six months from December 1st, 1938, and the remuneration will be at the rate of £100 per annum, plus board, residence, and laundry.

The closing date for the receipt of applications is November 16th, first post, and short-listed candidates will be invited to meet the Appointments Committee (at the Hospital) at 4.45 P.M. on November 17th.

Applications should be made on the prescribed form, obtainable from the undersigned.

R. S. G. HUTCHINGS, Secretary.

## The Middlesex Hospital and Medical SCHOOL, W.1.

Applications are invited for:—

One MEDICAL REGISTRARSHIP.
One OTOLOGICAL REGISTRARSHIP.
One FRACTURE AND ORTHOPÆDIC REGISTRARSHIP.

The appointments are for one year from the 1st January, 1939, and the holders are eligible to apply for reappointment and may retain office for three consecutive years. Salary £300 per annum. Further particulars may be obtained from the Secretary-Superintendent, to whom applications, with copies of not more than three testimonials, must be sent by noon on Wednesday, November 16th, 1938.

By order of the Board,
S. R. C. PLIMSOLL, Secretary-Superintendent.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in January, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list, and periods of unemployed or half pay are very rare. The assistance of private income is not necessary for the purpose of supplementing official pay and allowances.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 21st November, 1938.

## The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the office of SURGEON to the Hospital.

Candidates must be Fellows of the Royal College of Surgeons, England, or Masters of Surgery of a recognised British University.

Applications, together with copies of three recent testimonials, must be sent to the undersigned not later than noon on Monday, 14th November, 1938.

The Senior Assistant Surgeon is a candidate for the office.

CLEMENT COBBOLD, Secretary.

## The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of RADIOLOGIST (part-time) at this Hospital.

Applicants must be registered Medical Practitioners, who hold a Diploma in Radiology.

The duties of the post will be entirely in connexion with the diagnostic section of the Department.

Salary at the rate of £500 per annum.

Applications to be made on a form which will be supplied by the Secretary, together with three (copies only) recent testimonials, should be sent to the Secretary on or before Monday, 14th November, 1938.

CLEMENT COBBOLD, Secretary.

## The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of HOUSE SURGEON (Resident) to be attached to the Radium Department.

Candidates must be registered Medical Practitioners.

Salary £100 per annum.

Facilities afforded for Post-graduate study.

The appointment is for six months commencing 1st December, 1938.

Applications, to be made on a form which will be supplied by the Secretary, with copies only of not more than three recent testimonials, to be sent to the Secretary not later than the first post on Monday, 14th November, 1938.

CLEMENT COBBOLD, Secretary.

## The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

The Committee are prepared to receive applications for the post of ASSISTANT PATHOLOGIST to the Hospital. Experience in Clinical Pathology is essential.

Salary £500 per annum.

The appointment is subject to rules, a copy of which can be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, accompanied by copies of not more than three recent testimonials, to be sent to the Secretary not later than Monday, 14th November, 1938.

CLEMENT COBBOLD, Secretary.

## The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the Two posts of HOUSE SURGEON, to commence duties on 1st January, 1939.

Salary at the rate of £100 per annum each.

The appointments are for six months and subject to rules, a copy of which may be obtained from the Secretary.

Applications, to be made on a form which will be supplied by the Secretary, together with three (copies only) testimonials to be sent to the undersigned not later than the first post on Monday, 14th November, 1938.

CLEMENT COBBOLD, Secretary.

## Victoria Hospital for Children,

Tite-street, Chelsea, S.W.3.
(138 Beds.)

The Committee of Management invite applications for the post of SENIOR RESIDENT MEDICAL OFFICER (Male), vacant 1st January, 1939.

The appointment is for one year. Salary £200 per annum, with board, lodging, and washing, and certain fees from the private wards.

Candidates must have previously held a Hospital appointment.

They must attend the Hospital for the purpose of an interview.

Applications, with copies of three recent testimonials, should be sent to the Secretary not later than first post on Thursday, 17th November.

D. ST. JOHN BAMFORD, Secretary.

## Victoria Hospital for Children,

Tite-street, Chelsea, S.W.3.
(138 Beds.)

The Committee of Management invite applications for the post of CASUALTY OFFICER (Non-resident), for a period of three months commencing 1st December next. Hours 9 A.M. to 1.30 P.M. daily (including Saturday). Salary at the rate of £200 per annum, with lunch.

Candidates are expected to attend a subcommittee for an interview and to send their applications and copies of three testimonials to the Secretary not later than first post Thursday, 17th November.

The post gives excellent facilities for post-graduate study.

D. ST. JOHN BAMFORD, Secretary.

## Miller General Hospital,

Greenwich-road, S.E.10.

Applications are invited for the following posts :—

HOUSE PHYSICIAN. Male ; unmarried. Salary £100 per annum.

HOUSE SURGEON. Male ; unmarried. Salary £100 per annum.

TWO CASUALTY OFFICERS. Male ; part-time ; one for morning session, and one for afternoon. Salary £150 per annum, non-resident. Fuller particulars on application.

OUT-PATIENT OFFICER, who is required to see Medical and Surgical cases. Attendance daily (except Sunday) from 9 to 1 ; Tuesdays 9 to 5. Salary £150 per annum and lunch.

The appointments are for six months from 1st January, 1939. There are six Resident Officers.

Application forms can be obtained from the Secretary, and must be returned not later than 21st November, 1938.

1st November, 1938.

## Miller General Hospital,

Greenwich-road, S.E.10.

Applications are invited for the post of RESIDENT SURGICAL OFFICER AND REGISTRAR (the senior of six resident posts). Salary £250 per annum. Candidates (Male) must be unmarried. Board, residence, and laundry provided.

Duties to commence on 1st January, 1939.

Application forms can be obtained from the Secretary, and must be returned not later than 21st November, 1938.

1st November, 1938.

## Hampstead General Hospital,

Haverstock Hill, N.W.3.
(Out-patient Department, Camden Town, N.W.1.)

A vacancy is declared in the office of OPHTHALMIC SURGEON TO OUT-PATIENTS. Candidates must be Fellows of the Royal College of Surgeons of England, and are required to call upon members of the Honorary Medical Staff of the Hospital.

Applications, stating age, qualifications, and experience, with copies of three testimonials, should reach the undersigned by 18th November, from whom full particulars may be obtained.

KENNETH A. F. MILES, Secretary.

## Hampstead General and North-West

LONDON HOSPITAL, Haverstock-hill, N.W.3.

APPOINTMENT OF CASUALTY SURGICAL OFFICER.

Applications are invited from registered Medical Women for the resident appointment of Casualty Surgical Officer for six months, vacant December 1st next, at the Out-patient Department, Bayham-street, Camden Town. Salary £100 per annum.

Applications to be made on the prescribed form, together with copies of not more than three testimonials should be returned to the Secretary by November 19th next.

## The Salvation Army,

THE MOTHERS' HOSPITAL, Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the post of SENIOR RESIDENT MEDICAL OFFICER, vacant 1st January, 1939. Salary £150 per annum, with board, residence, and laundry. The appointment is for twelve months, but in special circumstances an appointment of six months might be considered.

Applications, with testimonials, must be sent to the Secretary on or before Wednesday, 30th November, 1938.

FRED HAMMOND, Secretary.

## The Salvation Army,

THE MOTHERS' HOSPITAL, Lower Clapton-road, Clapton, E.5.

Applications are invited from Medical Women for the post of JUNIOR RESIDENT MEDICAL OFFICER, vacant 1st January, 1939. Salary £80 per annum, with board, residence, and laundry. The appointment is for six months.

Applications, with testimonials, must be sent to the Secretary on or before Wednesday, 30th November, 1938.

FRED HAMMOND, Secretary.

# Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

*Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.*

# UNIVERSITY COLLEGE, LONDON

## FACULTY OF MEDICAL SCIENCES

SPECIAL COURSE FOR THE PRIMARY FELLOWSHIP EXAMINATION OF THE ROYAL COLLEGE OF SURGEONS.

Special Short Courses in ANATOMY and PHYSIOLOGY will commence on MONDAY, FEBRUARY 13TH, 1939, in preparation for the June Examination.

ANATOMY .. .. Professor H. H. WOOLLARD, M.D., D.Sc., F.R.S.
PHYSIOLOGY .. PHYLLIS M. TOOKEY KERRIDGE, M.Sc., Ph.D., M.R.C.P.

Instruction in Anatomy will comprise lectures, demonstrations, practical dissection, and oral examination. Special courses with practical work will be given in Histology one half day each week throughout the course. Each week papers will be set, corrected, and discussed. Members of the class are invited to use the facilities of the Dissecting Room, the Anatomical Museum, the Radiographic Department, and the Reading Room of the Medical Sciences Library.

Instruction in Physiology includes Biochemistry and is made up of lectures, demonstrations, and *viva voce* classes, held from Monday to Thursday at 9.30 A.M., Friday at 10.15 A.M. (not Saturday), beginning on February 14th.

Full particulars may be obtained on application to :—
C. O. G. DOUIE, Secretary.

University College, London (Gower-street, W.C.1).

## DIPLOMA IN PUBLIC HEALTH
## THE ROYAL INSTITUTE OF PUBLIC HEALTH AND HYGIENE

The course of instruction can be commenced at any time.

Candidates holding appointments are admitted to Part II Course as part-time students.

A prospectus and further particulars can be obtained from the Secretary. Telephone: Langham 2731-2.

28, Portland-place, London W.1.

## London Hospital, E.1.

There is a vacancy for the post of HONORARY ASSISTANT OPHTHALMIC SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications should be sent to the House Governor, from whom further particulars may be obtained, and must arrive not later than on Monday, 14th November.

ARTHUR G. ELLIOTT, House Governor.

22nd October, 1938.

## London Hospital, E.1.

Applications are invited for the post of SURGICAL FIRST ASSISTANT AND REGISTRAR. Candidates must be Fellows of the Royal College of Surgeons.

The appointment is for one year, but is renewable annually, on application, for two further periods of one year. Salary £300 per annum, payable by the Hospital and Medical College jointly.

Applications should arrive at the Hospital not later than by the first post on Saturday, December 17th.

A. G. ELLIOTT, House Governor.

## London Hospital, E.1.

There is a vacancy for the post of FIRST ASSISTANT AND REGISTRAR to the Neurosurgical Department.

Candidates must possess the F.R.C.S. Eng. qualification.

Applications should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than on Saturday, December 3rd.

ARTHUR G. ELLIOTT, House Governor.

31st October, 1938.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

A vacancy exists for a MORBID ANATOMIST AND SEBAG-MONTEFIORE RESEARCH FELLOW.

The appointment is whole-time and non-resident.

The appointment in the first place is for one year, but is renewable. Initial salary according to experience, but not less than £600 per annum.

The successful candidate will be required to take up his duties in March, 1939, or subsequently by arrangement.

Candidates must be registered Medical Practitioners and trained in Pathological Anatomy and Histology.

Applications, accompanied by copies of not more than three testimonials given specially for the purpose, must be delivered to the undersigned not later than Monday, 30th January, 1939.

Candidates must be prepared to appear before the Joint Committee at their Meeting on Wednesday, 1st February, 1939, at 4.45 P.M.

Forms of application and details of the appointment will be supplied on application.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

There are vacancies for the following :—

A RESIDENT SURGICAL OFFICER. Duties to commence on the 1st January, 1939. Salary £200 per annum.

This appointment is tenable in the first instance for one year, but may be extended for a period of one further year.

Two RESIDENT HOUSE PHYSICIANS and One RESIDENT HOUSE SURGEON. Duties to commence on the 1st January, 1939. Salaries at the rate of £50 per annum.

These appointments are tenable for six months.

A RESIDENT ANÆSTHETIC REGISTRAR. Duties to commence on the 1st January, 1939. Salary at the rate of £100 per annum.

This appointment is tenable in the first instance for six months, but may be extended for a further period of six months.

A RESIDENT MEDICAL OFFICER at the COUNTRY BRANCH HOSPITAL, TADWORTH-COURT, TADWORTH, SURREY. Duties to commence on the 1st January, 1939. Salary at the rate of £250 per annum.

This appointment is tenable for six months, but is renewable.

Candidates for the above appointments must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by noon on Monday, the 28th November, 1938, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 7th December, 1938.

Full particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

## The London Chest Hospital,
Victoria Park, E.2.
(Bus, Tram and Rail, Cambridge Heath, L. and N.E. Railway.)

Applications (with copies of three testimonials) are invited to be sent to the Secretary, on or before Wednesday, 30th November, 1938, for the following posts, subject to the rules and by-laws of the Hospital :—

RESIDENT MEDICAL OFFICER (Male) for one year from 1st January, 1939. Salary £350 per annum.
HOUSE PHYSICIAN (Male) for six months from 1st January, 1939. Salary at the rate of £100 per annum.
HOUSE SURGEON (Male) for six months from 1st January, 1939. Salary at the rate of £100 per annum.

Board, residence, and laundry provided.

## The Prince of Wales's General Hospital,
London, N.15. (238 Beds.)

Applications are invited for the posts of HONORARY CLINICAL ASSISTANTS in the various Departments of the Hospital (Surgical, Medical, Children, Skin, Ear, Nose, and Throat, Eye, Gynæcological, X-ray and Electrical) for the year 1938.

Applications for appointment to any of these posts should be sent to the undersigned on or before Friday, November 25th, 1939

J. C. BURDETT, Director and House Governor.

## Princess Elizabeth of York Hospital
FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

An OUT-PATIENT MEDICAL OFFICER is required on 1st January, 1939, by the above Hospital. The appointment is for six months and renewable for another six months subject to agreement on both sides. The holder of this post will be official deputy for the Resident Medical Officer. Salary at the rate of £175 per annum, with board, residence, and laundry. Candidates, who must be properly registered in this country, are invited to send in their applications addressed to the Secretary not later than first post on Tuesday, 22nd November, with copies of not more than three recent testimonials, and evidence of having held a responsible Hospital appointment. Forms of application and copies of the rules may be obtained from the Secretary-Superintendent.

## Princess Elizabeth of York Hospital
FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A HOUSE SURGEON is required on 1st January, 1939, by the above Hospital. Candidates are invited to send in their applications, addressed to the Secretary, not later than first post on Tuesday, 22nd November, accompanied by copies of not more than three recent testimonials, and evidence of having held a responsible Hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry. Candidates must be properly registered in this country.

Forms of application and copies of the rules may be obtained from the Secretary-Superintendent.

## Connaught Hospital, E.17.

FOR WALTHAMSTOW, LEYTON, WANSTEAD, AND CHINGFORD.
(118 Beds and extending.)

Applications are invited for the post of HONORARY DERMATOLOGIST to the above Hospital. Gentlemen desirous of applying should be Fellows or Members of the Royal College of Physicians, and, preferably, on the staff of a London Teaching Hospital.

Applications should be received by Saturday, 3rd December.

Further details can be obtained upon application to the undersigned.

R. HALTON HARRISON, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified registered Medical Men or Women for the half-time post of REGISTRAR in the Ear, Nose, and Throat Department. Preference will be given to candidates with the Fellowship of England, Edinburgh or the D.L.O. qualification. Intending candidates should submit applications, stating age and accompanied by copies of three recent testimonials, to the undersigned (from whom all information may be obtained) on or before the 8th December, 1938.

Duties to commence 1st January, 1939.

Present holder, being eligible, is a candidate for reappointment.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the whole-time post of SURGICAL REGISTRAR. Candidates must be Fellows of the Royal College of Surgeons (England). Salary £200 per annum.

Applications, stating age, and accompanied by copies of three recent testimonials, must be sent to the undersigned (from whom all information may be obtained) on or before 8th December, 1938.

Duties to commence 1st January, 1939.

RICHARD J. BARTLEY, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the post of DISTRICT OBSTETRIC ASSISTANT, tenable for six months in the first place at a salary of £100 per annum; at the discretion of the Professor of the Unit for a further six months at a salary of £200 per annum. Duties to commence 1st February, 1939. Candidates must be duly qualified registered Medical Women.

Application form may be obtained from the undersigned and should be duly filled in and returned on or before the 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

RESIDENT CASUALTY OFFICER.

Duties to commence 1st January, 1939, for six months. Salary £150 per annum.

Application form may be obtained from the undersigned, and should be duly filled in and returned on or before the 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Practitioners for the post of ANÆSTHETIC REGISTRAR at the above Hospital for one year from 1st February, 1939, with option to apply for reappointment for two subsequent years.

The post is a non-resident one, and carries with it a remuneration of £100 per annum.

Candidates should have had experience in all forms of Anæsthetics, including Dental work.

They should submit applications, with copies of three recent testimonials, stating age and qualifications, to the undersigned on or before 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the half-time post of GYNÆCOLOGICAL REGISTRAR from duly qualified and registered Medical Women.

This post is reserved for former students of the London (Royal Free Hospital) School of Medicine for Women. Salary £100 per annum.

Applications, stating age, and accompanied by copies of three recent testimonials, must be sent to the undersigned (from whom all information may be obtained) on or before the 8th December, 1938. Duties to commence 1st January, 1939.

Present holder, being eligible, is a candidate for reappointment.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited from Medical Women of six months' or more experience for the post of IN-PATIENT OBSTETRIC ASSISTANT (Anæsthetic duties included). The appointment is for six months from 1st February, 1939.

Application form may be obtained from the undersigned, and should be duly filled in and returned on or before the 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited for the whole-time post of MEDICAL REGISTRAR. Salary £200 per annum. Intending candidates, who must be fully qualified and registered, should submit applications, stating age and accompanied by copies of three recent testimonials, to the undersigned (from whom all information may be obtained) on or before 8th December, 1938.

Duties to commence 1st January, 1939.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,

Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

FOURTH HOUSE SURGEON.

Duties to commence 1st February, 1939, for six months.

Application form may be obtained from the undersigned, and should be duly filled in and returned on or before the 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## THE ARMY DENTAL CORPS

Applications are invited from DENTAL SURGEONS for appointment to commissions in The Army Dental Corps.

Candidates, who should not be over twenty-eight years of age, will for the present be selected for commissions without competitive examination, but will be required to present themselves in London for interview and physical examination. They must hold the degree or diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts.

Successful candidates will, in the first instance, be given short service commissions for six years, at the end of which period they will retire with a gratuity of £1000, unless they have been granted permanent commissions. Permanent commissions will be given to officers selected from among those who wish to make the Army their permanent career.

Particulars, including Regulations for admission, pay and allowances, and forms of application may be obtained on request either in writing or in person to the Director, Army Dental Service, The War Office, London, S.W.1.

## GENERAL POST OFFICE

HEADQUARTERS MEDICAL BRANCH (MALE STAFF).

There is a vacancy for a MALE ASSISTANT MEDICAL OFFICER in the Headquarters Medical Branch. The appointment is pensionable and carries a salary which commences at £500 a year and rises by annual increments of £25 to a maximum of £800 a year. The rates of salary are liable to review.

Each candidate must be a fully qualified Medical Practitioner, a natural-born British subject, and the child of a person who is or was at the time of death, a British subject. Preference will be given to candidates under thirty who have held one or more hospital appointments. The successful candidate will not be allowed to engage in private practice in addition to his official duties.

Applications, stating qualifications, age, &c., with copies of any recent testimonials, should be sent to the Chief Medical Officer, General Post Office, London, E.C.1. not later than the 3rd December, 1938.

Political influence should not be sought in support of applications; it would prejudice rather than assist the candidature.

The Male Medical Staff at Headquarters consists at present of a Chief Medical Officer, a Second Medical Officer, and four Assistant Medical Officers. Information as to the duties can be obtained from the Chief Medical Officer.

Candidates may be required to attend for personal interview in London at their own expense.

## St. John's Hospital for Diseases of

THE SKIN, 5, Lisle-street, Leicester-square, W.C.2.

Applications are invited for the post of HONORARY ASSISTANT PHYSICIAN to the Hospital for Saturday morning Clinics. Candidates must be Fellows or Members of the Royal College of Physicians of London, Edinburgh, or Dublin, or Fellows of the Royal College of Surgeons of England, Edinburgh, or Dublin.

Applications to be sent to the Secretary, from whom particulars can be obtained, on or before Saturday, November 26th, 1938.

LEONARD G. R. TURPIN, Secretary.

November 4th, 1938.

## The London Homœopathic Hospital.

(Incorporated by Royal Charter.)
Gt. Ormond-street and Queen-square, Bloomsbury, W.C.1.
(200 Beds.)

The Board of Management invite applications for the appointment of

HONORARY ASSISTANT PHYSICIAN.

The successful candidate must possess a registrable University Degree and be or become a Member of the British Homœopathic Society. It is required that the successful candidate for the post on the Honorary Medical and Surgical Staff of the Hospital should show evidence of knowledge of the Theory and Practice of Homœopathy within one year of appointment by having attended one or more of the Systematic Courses of Lectures at the Hospital.

Applications, stating age, qualifications, and experience, with thirty-five copies of application and thirty-five copies of each testimonial, should be sent on or before the 31st January, 1939, addressed to the Secretary, of whom further particulars may be obtained.

Candidates will be required to attend a meeting of the Medical Committee on the 8th February, 1939.

L. J. KNOWLES, Secretary.

## The London Homœopathic Hospital

(Incorporated by Royal Charter.)
Gt. Ormond-street and Queen-square, Bloomsbury, W.C.1.

(A General Hospital, 200 Beds.)

Appointments of
HOUSE PHYSICIAN,
HOUSE SURGEON,
GYNÆCOLOGICAL HOUSE SURGEON.

Applications are invited for each of these three appointments which become vacant on the 31st December, 1938.

The appointments are for a period of six months each, with salary at a rate of £100 per annum, and board, apartments, and laundry.

Candidates must be legally qualified and registered. Selected candidates will be required to attend a meeting of the Medical Committee for interview on December 14th.

Applications, stating age, with copies of testimonials, to be sent to the undersigned not later than December 5th, 1938.

L. J. KNOWLES, Secretary.

## Maida Vale Hospital for Nervous

DISEASES, London, W.9.

MEDICAL REGISTRARS.

Applications are invited for two posts of Medical Registrar. The appointments will be for one year from the 1st January, 1939, and are renewable for a further year. Honorarium £100.

One of the present Medical Registrars is a candidate for reappointment.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned not later than 25th November.

L. C. DIXON Secretary and General Superintendent.

## University College Hospital,

Gower-street, W.C.1.

Applications are invited for a MEDICAL REGISTRAR, a whole-time post, commencing the 1st January, 1939, at a salary of £150 per annum (resident).

Applications, accompanied by such evidence of fitness for the post as candidates may see fit to submit, must reach the Secretary of the Hospital by noon on Monday, the 28th November, 1938.

## The London Lock Hospital.

Applications are invited for the appointment of two SURGICAL REGISTRARS (Male) to the Lock Hospitals at Dean-street (Men) and Harrow-road (Women). Candidates must be Fellows (or Members) of the Royal College of Surgeons of England, or Surgical Graduates of a University of the United Kingdom. One candidate should preferably have had some previous obstetrical experience. The appointments are for one year in the first instance, commencing as at 1st December. Honorarium at the rate of £100 per annum.

Applications, with three copies of testimonials, must be in the hands of the Secretary not later than first post on Tuesday, 29th November, from whom any further information relating to the appointment can be obtained.

4th November, 1938, 283, Harrow-road, W.9.

## General Lying-in Hospital, York-road,

Lambeth, S.E.1.

Applications invited for the post of JUNIOR RESIDENT MEDICAL OFFICER AND ANÆSTHETIST. Salary at the rate of £100 per annum, with board, residence, and laundry. Appointment for three months, commencing 1st January, 1939. The successful candidate will, subject to satisfactory service, be required to succeed to the Senior Medical Officer's post for a further three months.

Applications, stating age and qualifications, with copies of three recent testimonials, to be sent to the Secretary not later than Monday, 28th November, 1938.

## The Hospital for Women,

Soho-square, London, W.1.

Applications are invited for the post of RESIDENT MEDICAL OFFICER for a period of six months, commencing 1st January, 1939. The salary is at the rate of £100 per annum, with board, residence, and laundry.

Applications and testimonials must reach the undersigned by 10th December, 1938.

J. P. HEMING, Secretary.

## The Queen's Hospital for Children,

Hackney-road, E.2.
(204 Beds.)

The Board of Management invite applications for the post of EAR, NOSE, AND THROAT SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England or of another recognised College. Attendance required two half-days weekly. The appointed candidate will have charge of beds. An honorarium to cover travelling expenses will be paid.

Further information may be obtained from the undersigned, to whom applications, with copies of three recent testimonials, should be sent not later than November 23rd, 1938.

CHARLES H. BESSELL, Secretary.

## The Princess Beatrice Hospital,

Earl's Court, S.W.5.
General Hospital.

HONORARY ANÆSTHETIST.

Applications are invited from fully qualified Medical Practitioners for the post of Honorary Anæsthetist to the Hospital. Dental session Wednesday morning; other sessions may be required of him. Honorarium, one guinea per session.

Applications, giving qualifications, age, &c., together with copies of not more than three recent testimonials, should be sent to the Secretary, The Princess Beatrice Hospital, 194, Finborough-road, S.W.10, by November 21st, 1938.

## St. John's Hospital, Lewisham, S.E.13.

Applications are invited to fill the appointment of ORTHOPÆDIC REGISTRAR. The successful candidate is required to attend the hospital on Wednesday mornings. An honorarium of 35 guineas per annum is paid.

Applications, with particulars of qualifications and experience, should be addressed to the undersigned as soon as possible.

J. C. GILBERT, Secretary-Superintendent.

## The Infants Hospital,

Vincent-square, Westminster.

Applications are invited for the post of HOUSE PHYSICIAN (either sex). Salary at the rate of £100 per annum, with board, residence, and laundry.

(The hospital is recognised for the D.C.H.)

The appointment is for six months from January 1st, 1939.

Applications, with copies of testimonials, to be forwarded to the undersigned not later than November 30th.

ARNOLD TUNSTALL, Secretary.

## The Infants Hospital,

Vincent-square, Westminster.

Applications are invited from qualified Medical Practitioners for appointment as CLINICAL ASSISTANTS (Honorary, and for D.C.H. Candidates) in the Out-patient Department.

Applications, stating previous experience, must be delivered not later than November 30th to the Secretary, from whom further information may be obtained.

## Paddington Green Children's Hospital

(Incorporated), London, W.2.

Applications are invited for the appointment of HONORARY PHYSICIAN to the SKIN DEPARTMENT.

Candidates must be Members of the Royal College of Physicians, London.

Applications, stating age and qualifications, accompanied by copies of three testimonials, should reach the undersigned as soon as possible.

JAMES A. HAMLIN, Secretary.

## Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds and 30 Convalescent Beds at Bognor.)

A RESIDENT MEDICAL OFFICER is required on 1st January, 1939. Gentlemen are invited to send in their applications, addressed to the Secretary, not later than first post on Tuesday, 22nd November, with copies of not more than three testimonials and evidence of having held a responsible Hospital appointment. The appointment is for one year. Salary at the rate of £200 per annum, with board, residence, and laundry.

Candidates must be properly registered in this country.

Forms of application and copies of the rules may be obtained from the Secretary-Superintendent.

## Applications are invited for the

appointment of HONORARY PHYSICIAN to THE BRITISH HOSPITAL for FUNCTIONAL MENTAL AND NERVOUS DISORDERS, 72, Camden-road, N.W.1. Candidates must hold the Diploma in Psychological Medicine and address their applications to the undersigned.

DENIS G. WILLIAMS, Secretary.

## The Royal Waterloo Hospital for

CHILDREN and WOMEN, Waterloo-road, S.E.1.

There will be a vacancy on the 1st December, 1938, for a HOUSE SURGEON (Male) at the above Hospital. The appointment is in the first instance for a period of six months. Salary at the rate of £100 per annum, with board and residence.

Applications, with copies of testimonials, should be forwarded not later than Tuesday morning, 22nd November, to the Secretary at the above address, from whom further particulars can be obtained.

## Evelina Hospital for Sick Children,

Southwark, S.E.1.

Applications are invited for the post of HOUSE SURGEON (Male) for six months from December 12th (first two months in the Casualty and Out-patients Department). Salary at the rate of £120 per annum, with board and residence.

Applications, with copies of three recent testimonials, should be sent to the undersigned, from whom particulars can be obtained, not later than first post on Tuesday, 22nd November.

W. H. SIDNELL, House Governor.

## University of London.

Applications are invited for the GEOFFREY E. DUVEEN TRAVELLING STUDENTSHIP in OTO-RHINO-LARYNGOLOGY, value £450 a year. Candidates must be registered as Medical Practitioners by the General Medical Council or have had previous education and experience which, in the opinion of the University, qualifies them to undertake research in the subject of Oto-Rhino-Laryngology or in any part thereof.

Applications should reach the University on or before 31st December, 1938, and must be made on the prescribed form, which may be obtained, together with further particulars, from the Academic Registrar, Senate House, University of London, W.C.1.

## Samaritan Free Hospital for Women,

Marylebone-road, N.W.1.

Applications are invited for the post of ANÆSTHETIST to attend on Tuesday mornings and Wednesday afternoons.

Applications, accompanied by copies only of three testimonials, should reach the Secretary at the Hospital before NOON, Thursday, 1st December, 1938.

G. H. HAWKINS, Secretary.

## Wirral Joint Hospital Board.

CLATTERBRIDGE ISOLATION HOSPITAL.
(100 Beds.)

The Wirral Joint Hospital Board invite applications from registered Practitioners for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named Hospital.

Preference will be given to applicants who have had experience in Bacteriology.

The Hospital is situated within easy distance of the Liverpool Medical School, and time will be allowed, when the work of the Hospital permits, for attendance at D.P.H. or other higher qualification classes.

The appointment is for one year only, and is not renewable.

Salary £200 per annum, with board, residence, and laundry.

Duties begin 1st February, 1939.

Application, stating age, qualifications, &c., and accompanied by copies of recent testimonials, to be made not later than 15th December, 1938, to:—

DAVID BUNTING, Clerk to the Joint Hospital Board.
61, Hamilton-square, Birkenhead.

## Royal Cornwall Infirmary, Truro.

(84 Beds.)

HOUSE SURGEON (Male) required with experience of Anæsthetics to commence duties on the 1st December next. Salary £170 per annum, rooms, board, and washing.

Apply, with copies of three recent testimonials, to the Secretary, of whom further particulars may be obtained.

W. E. GRENFELL, Hon. Secretary.

Truro, November 8th, 1938.

## Caernarvonshire and Anglesey

INFIRMARY, BANGOR.
(General Hospital.)

JUNIOR HOUSE SURGEON wanted. Salary £120 per annum, with residence, board, and laundry. Duties to commence December 10th.

Applications, stating age, qualifications, and nationality, with two testimonials, should reach the Secretary by the 28th November.

Good opportunity for Medical and Surgical experience.

## City of Birmingham.

ASSISTANT MEDICAL OFFICER OF HEALTH.

The Public Health and Maternity and Child Welfare Committee invite applications for the post of whole-time Assistant Medical Officer of Health for general, and mainly administrative public health duties. Candidates must be qualified Medical Practitioners and hold a Diploma in Public Health.

The successful candidate will be required to pass an approved medical examination, to contribute to the Superannuation Scheme, established under the Local Government and Other Officers' Superannuation Act, 1922, as amended by Section 82 of the Birmingham Corporation Act, 1935—Annuities for Widows—and, if under thirty years of age, to join the Birmingham Municipal Officers' Widows' and Orphans' Pensions Scheme.

The appointment will be terminable by one month's notice on either side. Salary £600 per annum, rising by £25 annually to £800.

Applications endorsed "Assistant Medical Officer of Health" and accompanied by copies of three recent testimonials, to be made on a form to be obtained from the Medical Officer of Health, The Council House, Birmingham, 3, and returned to him by Saturday, 26th November, 1938.

Canvassing will disqualify.

F. H. C. WILTSHIRE, Town Clerk.

## The Warneford Hospital for Mental

DISORDERS, OXFORD.

ASSISTANT MEDICAL OFFICER required for the above Registered Hospital. Young Graduate with some General Hospital experience preferred. Opportunities for modern Psychiatric practice and ample time for reading or research in Psychiatry. Salary £350 a year, with board and laundry.

Applications, together with copies of not more than three testimonials, should be sent to the Physician Superintendent before 10th December, 1938.

## City of Leicester.

RESIDENT MEDICAL OFFICER.

Resident Medical Officer (Male) required for the CITY ISOLATION HOSPITAL AND SANATORIUM, Groby-road.

Appointment for a period of six months, renewable if service is satisfactory for a further period of six months.

Salary at the rate of £300 per annum, with the usual residential emoluments. The officer appointed may be required to assist with Infant Welfare work.

Applications, on forms to be supplied, to be sent to the undersigned not later than the 23rd November, 1938.

E. K. MACDONALD, Medical Officer of Health.

Health Offices, Grey Friars, Leicester, November, 1938.

## King Edward VII Hospital, Windsor.

(200 Beds.)

CASUALTY OFFICER required, beginning December Applicants must be fully qualified men or women and unmarried.

Salary at the rate of £120 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications, and experience, accompanied by testimonials, should be sent to the undersigned not later than 16th November.

A. E. CHURCHER, Secretary.

## Cheltenham General and Eye Hospitals.

(176 Beds. 4 Residents.)
Recognised for the F.R.C.S., D.L.O., and D.O.M.S. Examinations.

The Board of Management invite applications for the post of HOUSE SURGEON (Male) at the General Hospital.

Candidates must be unmarried, and have a registered qualification in Medicine and Surgery.

Salary £150 per annum, with board, lodging, and laundry.

There are two House Surgeons for General Surgical work, in addition to which one is attached to the Orthopædic and Gynæcological Departments and the other to the Genito-Urinary and Radium Departments.

Applications, with copies of testimonials, to be sent in sealed envelopes marked "House Surgeon" to the undersigned as soon as possible.

J. CUMMING SMITH, F.C.I.S., Secretary.

The General Hospital, Cheltenham, 7th November, 1938.

## Kent County Ophthalmic and Aural

HOSPITAL, MAIDSTONE. (109 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male) to the Ear, Nose, and Throat Department, which post will be vacant on the 16th December. Candidates must be duly qualified and registered Medical Practitioners, single, and of British birth and nationality, and should have had some experience in the treatment of Diseases of the Ear, Nose, and Throat. The Hospital is recognised by the Examining Board for the D.L.O. The appointment is for six months, but a senior post at a higher salary may be given after that period if mutually agreed upon. Salary at the rate of £200 per annum, with board, residence, and laundry.

Applications, stating age, together with copies of not more than three testimonials, should be sent to the undersigned.

JOHN W. STRICKLAND, Secretary.

## The King Edward VII Welsh National
MEMORIAL ASSOCIATION.

Applications are invited from duly registered Medical Practitioners (Male) for the following post at the GLAN ELY TUBERCULOSIS HOSPITAL, FAIRWATER, CARDIFF (197 Beds for Pulmonary and Non-pulmonary Tuberculosis in Adults and Children):—

SENIOR ASSISTANT MEDICAL OFFICER. Salary £500 per annum, rising by annual increments of £25 to £700 per annum, less emoluments in the case of an unmarried man of £100 per annum. A married man will be expected to live near the Hospital.

Preferably candidates should have had six months' resident experience in a special institution (Hospital or Sanatorium) for the treatment of Pulmonary and/or Non-pulmonary Tuberculosis, with eighteen months' experience in general Clinical work, of which six months should have been spent in a Hospital not confined to the treatment of Tuberculosis.

This post is subject to the provisions of the Association's Superannuation Scheme. Applicants must be under forty-five years of age and the successful candidate must undergo medical examination.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials, should reach the undersigned not later than November 22nd, 1938.

D. A. POWELL, Principal Medical Officer.

Memorial Offices, Cathays Park, Cardiff.

## Hertford County Hospital.
(171 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male—Three Residents). Salary £200 per annum, with board, residence, and laundry. The appointment is for six months in the first instance.

Applications, with three recent testimonials, should be sent to the undersigned not later than Tuesday, 22nd November instant.

PERCY G. BROOKS, Secretary.

## Boston General Hospital,
(70 Beds.)

RESIDENT MEDICAL OFFICER required to commence duty as soon as possible. Salary £150 per annum, with board, residence, and laundry. The appointment is for six months, and is renewable.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials, should be addressed to the undersigned.

GORDON EASTO, Secretary.

## Nottingham City Hospital.

RESIDENT ASSISTANT SURGICAL OFFICER.

Applications are invited for the post of Male Resident Assistant Surgical Officer at the above Hospital.

The Hospital is a General Hospital of over 1000 Beds, with a considerable amount of acute work.

The appointment is tenable for six months in the first instance, at a salary of £250 per annum, with the usual emoluments, but may be renewed for a further period of six months, subject to satisfactory service.

The successful candidate will be responsible for Ear, Nose, and Throat, and General Surgical cases, under the supervision of the Visiting Consulting Surgeons.

Candidates must have held previous Hospital appointments and have had practical Surgical experience.

Application forms can be obtained from me and should be returned, together with three copies of recent testimonials, on or before 25th November, 1938.

Canvassing, directly or indirectly, is forbidden.

J. E. RICHARDS, Town Clerk.

Guildhall, Nottingham, 7th November, 1938.

## Royal Manchester Children's Hospital,
PENDLEBURY, Near MANCHESTER.
(232 Beds.)

RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Resident Medical Officer. Salary £150 per annum. The appointment is for a period of six months, commencing 1st January, 1939. Candidates must be unmarried and duly registered. Previous hospital experience essential.

Applications, stating age, and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Friday, 2nd December. Canvassing, directly or indirectly, may disqualify.

By Order,

H. HEARDMAN, Secretary.

## The General Hospital, Birmingham.
(The Birmingham United Hospital.)

Applications are invited from qualified Medical Practitioners for the post of RESIDENT SURGICAL REGISTRAR for twelve months in the first instance from December 15th, at a salary at the rate of £100–£10–£120 per annum.

Applications should reach the undersigned by November 21st.

A. H. LEANEY, House Governor.

November 3rd, 1938.

## Lancashire Mental Hospitals Board.

CALDERSTONES (Certified Institution for Mental Defectives), WHALLEY, near BLACKBURN,
and
BROCKHALL (Certified Institution for Mental Defectives), LANGHO, near BLACKBURN.

Applications are invited from duly qualified and registered persons for the post of whole-time DENTAL SURGEON to the two Institutions named above. The officer appointed will be required to carry out his duties under the direction of the Medical Superintendents of the respective Institutions, who will arrange the hours of duty at each Institution, and to do the requisite mechanical work. The appointment is non-resident, but the place of residence of the officer appointed will be subject to the approval of the Committees of Management.

The Institutions are approximately five miles apart, and third class travelling expenses will be allowed between them, or, alternatively, if the officer uses his own car for this purpose, the mileage rate in force for the time being will be paid. Any meals taken in the Institutions will be charged for at the rate laid down in the Board's Scale of Salaries and Wages for Medical Officers.

The appointment is subject to the provisions of the Asylums and Certified Institutions (Officers' Pensions) Act, 1918, and will be terminable by three months' notice in writing on either side.

Annual leave three weeks. Salary £500 per annum, rising by annual increments of £25 to £600.

Applications must be made on the prescribed form which may be obtained from the Medical Superintendent, Calderstones Institution, Whalley, near Blackburn, Lancashire, and returned not later than the first post on Thursday, the 1st December, 1938.

## Surrey County Council.

ASSISTANT MEDICAL OFFICERS.

Applications are invited for the appointment of Assistant Medical Officers. Applicants must possess a qualification in Public Health. The main duties will be in connexion with the School Medical and Maternity and Child Welfare Services, but the officers appointed will be required to undertake such other Public Health duties as may be allocated to them. They will be on the staff of the County Medical Officer of Health, must reside in the County of Surrey, and devote their whole time to the work.

Salary £600 per annum, rising by annual increments of £20 to £700 per annum. Travelling expenses in accordance with the Council's scale will be allowed.

The appointments will be subject to the approval of the Ministry of Health and the Board of Education, to the successful candidates passing a medical examination, to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the Staffing Regulations of the Council, which provide, inter alia, that appointment may be determined at any time by three months' notice.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be made on the prescribed form, and sent to the County Medical Officer of Health, County Hall, Kingston-upon-Thames, from whom copies of the application form may be obtained, and to whom any inquiries relating to the appointment should be addressed.

Last day for receipt of application, Wednesday, 16th November, 1938.

Canvassing, directly or indirectly, will disqualify.

DUDLEY AUKLAND, Clerk of the County Council.

County Hall, Kingston-upon-Thames, 1st November, 1938.

## Middlesex County Council.
REDHILL COUNTY HOSPITAL,
EDGWARE, MIDDLESEX.

RESIDENT JUNIOR ASSISTANT MEDICAL OFFICER, registered Medical Practitioner, with previous General Hospital resident service. Duties mainly Obstetrical and Gynæcological, appointment recognised qualification for M.C.O.G., and D.C.O.G.

Salary £250 per annum, with board, lodging, and laundry, valued at £100 per annum.

Whole-time appointment, subject to medical examination, is primarily for six months, with possibility of six months extension, when contributions to superannuation fund may be required.

Written application to undersigned, in envelope endorsed "A.M.O., Redhill—B.3," giving details age, experience, and qualifications, and enclosing copies two/three recent testimonials.

C. W. RADCLIFFE, Clerk of the County Council.

Guildhall, Westminster, S.W.1.

## Royal West Sussex Hospital, Chichester.
(114 Beds, including 12 in the Private Patients' Block—Two Residents.)

The Board of Management invite applications for the post of HONORARY OPHTHALMIC SURGEON from Practitioners in Ophthalmology only.

Applications, giving details of special training and accompanied by copies of three testimonials, should be sent to the Secretary before 18th November, 1938.

J. COXON INCE, Secretary.

## Chesterfield and North Derbyshire
ROYAL HOSPITAL, CHESTERFIELD.
(220 Surgical and Medical Beds.)

HOUSE SURGEON TO OPHTHALMIC AND EAR, NOSE, AND THROAT DEPARTMENTS.

Applications are invited from fully qualified men for the above post, to commence 1st December, 1938.

The appointment is for six months.

Salary at the rate of £150 per annum, with board, apartments, and laundry.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as soon as possible.

M. H. BOONE, Superintendent and Secretary.

7th November, 1938.

## Chesterfield and North Derbyshire
ROYAL HOSPITAL, CHESTERFIELD.
(220 Surgical and Medical Beds.)

HOUSE SURGEON.

Applications are invited from fully qualified men for the above post, to commence 1st December, 1938.

The appointment is for six months.

Salary at the rate of £150 per annum, with board, apartments, and laundry.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as soon as possible.

M. H. BOONE, Superintendent and Secretary.

7th November, 1938.

## Middlesbrough Education Committee.

APPOINTMENT OF SENIOR ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Men, who have had experience of School Medical work, for the post of Senior Assistant School Medical Officer in connexion with the Medical Inspection and Treatment of School Children, and such other duties as may be required by the Education Committee. The person appointed will be responsible to the School Medical Officer.

Commencing salary £700 per annum, rising by annual increments of £25 to £750 per annum, thence by two annual increments of £50 to a maximum salary of £850 per annum.

The successful candidate will be required to devote his whole time to the duties of the office. The appointment will be subject to two calendar months' notice on either side, such notice dating from the last day of any calendar month.

Applicants must have had experience in the work of the School Medical Service, and preference will be given to candidates who have had experience of Refraction work and who are recognised by the Board of Education in connection with certification under the Mental Deficiency and other Acts.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the successful candidate passing satisfactorily a medical examination.

Forms of application may be obtained from the Director of Education on receipt of a stamped, addressed foolscap envelope, and these should be returned to the Director of Education, Education Offices, Middlesbrough, not later than Saturday, 26th November, 1938.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Offices, Middlesbrough, 7th November, 1938.

## Borough of Todmorden.

MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

Applications are invited for the position of whole-time Medical Officer of Health, School Medical Officer, and Superintendent of Infectious Diseases Hospital. Salary £800 per annum and motor-car allowance of £70 per annum. The appointment is subject to the Local Government and Other Officers' Superannuation Act, 1922.

Applications, stating age, qualifications, and experience, with copies of not more than three recent testimonials, to reach me on or before the 28th November, 1938, in envelopes endorsed "Medical Officer."

HERBERT GARRATT, Town Clerk.

Municipal Offices, Todmorden.

## Royal Sussex County Hospital,
BRIGHTON. (Beds 272.)

Required at the end of December—

One HOUSE PHYSICIAN.
One HOUSE SURGEON.
One CASUALTY HOUSE SURGEON.

Salaries respectively £150, £150, and £120 per annum, with board, residence, and laundry.

Candidates must hold Medical and Surgical qualifications of the British Empire, and be duly registered under the Medical Acts.

They must be unmarried and when elected under thirty years of age.

Applications, with copies of recent testimonials, should be sent to the undersigned.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

## Royal Sussex County Hospital,
BRIGHTON.

Applications are invited for the offices of HONORARY MEDICAL REGISTRAR and HONORARY SURGICAL REGISTRAR, from Gentlemen who hold a Medical and Surgical qualification of the British Empire and who are duly registered under the Medical Acts.

The appointments will be for a term of three years, the successful candidates being eligible for re-election at the end of that period.

Applications must reach the undersigned at the Hospital before 12 NOON on the 26th November, 1938.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

## The Bolton Royal Infirmary.
(318 Beds, including two Auxiliary Hospitals.)

Applications are invited for the following posts :—

RESIDENT SURGICAL OFFICER (Gentleman).

Resident Staff comprises Assistant R.S.O., House Physician, and three House Surgeons. R.S.O. appointment is recognised by the Royal College of Surgeons of England for the Final Fellowship Examination.

Salary £250 per annum, with board, residence, attendance, and laundry.

ASSISTANT RESIDENT SURGICAL OFFICER (Gentleman).

The duties of the Assistant R.S.O. comprise responsibility for the whole of the Casualty and Orthopædic Departments and to deputise for the R.S.O. in his absence.

The post is recognised by the Royal College of Surgeons of England for the Final Fellowship Examination.

Salary £200 per annum, with board, residence, attendance, and laundry.

THREE HOUSE SURGEONS (Ladies or Gentlemen).

Salary £150 per annum, with board, residence, attendance, and laundry.

Applications for the posts, stating age, nationality and experience, together with copies of testimonials, should be forwarded to the undersigned not later than the first post Monday, November 21st.

Duty in each case will commence on the 1st January, 1939, with the exception of one house surgeon, who will be required to commence Dec. 6th.

H. CORLESS, Secretary.

## Worcester County and City Mental
HOSPITAL, POWICK, near WORCESTER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER. Applicants must be Male, single, under thirty-five years of age, and duly qualified in medicine and surgery. Commencing salary £350, rising by annual increments of £25 to a maximum salary of £450 per annum, together with furnished apartments, board, laundry, and attendance. A further £50 per annum will be paid if the selected candidate holds or obtains a Diploma in Psychological Medicine. Experience in Anæsthetics will be a recommendation. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, stating age and full particulars of qualifications and experience, accompanied by copies of three recent testimonials, to be forwarded to the Medical Superintendent not later than Friday, 18th November, 1938.

## Hertfordshire County Council.

WARE PARK SANATORIUM.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of a Male Assistant Medical Officer at the County Sanatorium, Ware Park, near Ware. Age not less than twenty-five and not more than forty years. Applicants must not be married men, and should be qualified Medical Practitioners with Hospital experience, and preference will be given to those who have had experience of the institutional treatment of Tuberculosis. The appointment is for one year. Salary £300 per annum, with furnished rooms rent free, together with board, washing, light, fuel, and service.

Forms of application, with particulars, can be obtained from the Clerk of the County Council, Clerk of the Peace Office, Hertford, and must be returned duly completed before 30th November, 1938.

ELTON LONGMORE, Clerk of the County Council.

Clerk of the Peace Office, Hertford, November, 1938.

## The Royal Portsmouth Hospital,
PORTSMOUTH.
(Six Resident Medical Officers.)

Applications are invited for the post of SENIOR HOUSE SURGEON (Male). Salary at the rate of £175 per annum, with board, &c. Candidates must have held an appointment as House Surgeon at a General Hospital and had considerable experience, as the post is a very responsible one.

To commence 12th December, 1938. Six months' appointment and eligible, on completion of term, for extension.

Applications, stating age, nationality, and full details, with copies of three testimonials, to be sent to the undersigned not later than 30th November, 1938, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

## Rowley Regis Borough Council.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER (Female).

The Council of the Borough of Rowley Regis invite applications for the above whole-time appointment from duly qualified registered Medical Practitioners. It is essential that the officer appointed should have had experience in Maternity and Child Welfare work. The salary will be £500 and will rise, subject to satisfactory service, by annual increments of £25 to £700 per annum. Travelling expenses, in accordance with the Council's scale, will be allowed. The appointment is subject to the Local Government Officers' Superannuation Act, 1922.

Candidates must apply on the prescribed form which can be obtained from Dr. Frank Asker, Medical Officer of Health, Haden Hill Park Offices, Old Hill, Staffs.

Applications, together with copies of not more than three testimonials, must be received by the undersigned not later than Saturday, November 26th, 1938.

C. BUCKLEY, Town Clerk.

Council House, Old Hill, Staffs.

## Richard Murray Hospital, Blackhill, CO. DURHAM.

HOUSE SURGEON.

Applications are invited for the post of HOUSE SURGEON at the above Hospital, which has accommodation for sixteen surgical cases and sixteen maternity cases. The salary offered is £200 per annum, with board, apartments, and laundry in addition.

Applicants will require to have had previous experience as a House Surgeon in a General Hospital, and preference will be given to those with similar experience in a Maternity Hospital.

The appointment is for the period commencing 1st January, 1939, and terminating on the 31st December, 1939, and is not renewable.

The hospital is served by a Visiting and Consultant Surgeon and a Visiting and Consultant Obstetrician.

So far as the Maternity Unit is concerned, the person appointed will be subject to the administrative control of the County Medical Officer of Health.

The duties will include the medical supervision of an adjacent small Convalescent Home for mothers and young children.

Applications, stating age, qualifications, and experience, and accompanied by copies of not more than three recent testimonials, must be received by the undersigned not later than Monday, 21st November, 1938.

T. W. ADDISON,
Secretary to the Richard Murray Hospital Joint Board.

Shire Hall, Durham, 31st October, 1938.

## County Borough of Huddersfield.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners (Ladies) who have had special experience in antenatal work and in the care of infants. Salary £500–£25–£700, initial salary according to experience.

The doctor appointed will be required to reside in the Municipal Maternity Home when the extensions in progress at present have been completed. A deduction will then be made from the salary for board, &c.

The post will be designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination before being appointed to the position.

Applications, staging age, full particulars regarding training, qualifications, and appointments held since qualifications, should be forwarded to the Medical Officer of Health, Public Health Department, Huddersfield, along with copies of two recent testimonials, so as to reach him not later than Thursday, November 17th, 1938.

Application forms are not provided.

SAMUEL PROCTER, Town Clerk.

Town Hall, Huddersfield, November, 1938.

## East Sussex County Council.

SOUTHLANDS HOSPITAL, SHOREHAM-BY-SEA.

ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from fully qualified Male registered Medical Practitioners (unmarried) for the post of Assistant Resident Medical Officer at Southlands Hospital, Shoreham-by-Sea, near Brighton. The appointment is for one year. Salary £300 per annum, with board, residence, and laundry. Preference will be given to candidates who have had special experience in obstetrics and gynæcology. The Hospital (350 beds) is a general hospital, under the administration of the East Sussex County Council. The duties of the post are mainly concerned with obstetrical cases (40 maternity beds), but there are general duties in addition.

Application should be made on a form obtainable from the undersigned at the County Hall, Lewes, and must be returned to him by Saturday, November 19th, 1938. It is desired that the selected applicant shall commence duty on the 1st January, 1939.

W. R. EDWARDS,
Deputy Clerk of the County Council.

County Hall, Lewes, 28th October, 1938.

## Oxford County and City Mental HOSPITAL, LITTLEMORE, Near OXFORD.

Applications are invited for the post of JUNIOR ASSISTANT MEDICAL OFFICER. Applicants must be Male (single), under thirty-five years of age, and duly qualified in Medicine and Surgery. Experience as Resident in a General Hospital essential, but previous Mental Hospital service unnecessary. Commencing salary £350 per annum, rising by annual increments of £25 to a maximum of £450, together with furnished apartments, board, laundry, and attendance, valued at £100 per annum. An additional £50 per annum will be paid when D.P.M. is obtained. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, stating age and full particulars of qualifications and experience, accompanied by copies of three recent testimonials, to be forwarded to the Medical Superintendent, not later than 25th November, 1938.

## Saint Mary's Hospital.

SAINT MARY'S MUNICIPAL HOSPITAL. (1050 Beds.

Applications are invited for the appointment of a JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER. Applicants must be single Gentlemen, duly qualified and registered, not exceeding thirty years, and must have had at least one year's experience of Hospital work. Experience in Anæsthetics will be an additional qualification. The appointment is limited to a term of one year, and the salary will be £250 per annum, with residential emoluments valued at £125 per annum. The appointment includes service at any institution belonging to the City Council, and will be subject to termination by one month's notice on either side A resident Medical Superintendent is in attendance.

Application forms may be obtained from and must be returned to the Medical Officer of Health, The Guildhall, Portsmouth, not later than Monday, 21st November, 1938.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.

The Guildhall, Portsmouth, 29th October, 1938.

## County Borough of Barrow-in-Furness.

Applications are invited for the appointment of MEDICAL OFFICER OF HEALTH AND PORT MEDICAL OFFICER of the Borough, subject to the provisions of the Sanitary Officers' Order, 1926, and the Local Government Act, 1933.

Candidates must not be more than forty-two years of age.

The person appointed will be required to perform all the duties of a Medical Officer of Health under relevant Acts and Orders, to act as School Medical Officer for the Borough, Administrative Tuberculosis Officer, and Superintendent of the work of the Maternity and Child Welfare Service. He will also be required to act as Medical Superintendent of the Devonshire-road Isolation and Tuberculosis Hospital.

The person appointed must reside within the borough, devote his whole time to the duties of the office, and not engage in private practice.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922. The successful candidate will be required to pass a medical examination.

The salary to cover all duties will commence at the rate of £900 per annum, rising subject to satisfactory service, by annual increments of £50 to a maximum of £1050 per annum. A motor car allowance of £50 per annum will be granted.

Applications, endorsed "Medical Officer of Health," stating age, qualifications, and experience, and accompanied by copies of not more than three recent testimonials, should reach the undersigned not later than Wednesday, 23rd November, 1938.

Canvassing, directly or indirectly, is prohibited and will result in disqualification.

W. LAWRENCE ALLEN, Town Clerk.

Town Hall, Barrow-in-Furness.

## The Royal Hospital for Sick Children, GLASGOW.

The Directors invite applications for appointment as a VISITING SURGEON to the Hospital. Honorarium £500, with Students' fees. Twelve copies of the applications and of relative testimonials must be lodged on or before 30th November, 1938, with the Subscriber, who will give any further information required. Canvassing is prohibited.

JAMES METHVEN, Secretary.

86, St. Vincent-street, Glasgow.

## The Royal Portsmouth Hospital, PORTSMOUTH.

(Six Resident Medical Officers.)

Applications are invited for the post of CASUALTY OFFICER (Male) qualified. Salary at the rate of £130 per annum, with board, &c. To commence 1st December, 1938.

Six months' appointment. Eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, &c., and copies of three recent testimonials to be sent to the undersigned on or before 16th November, 1938, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

# INDIAN MEDICAL SERVICE

## RECRUITMENT OF EUROPEAN OFFICERS

**Applications are invited from Medical Men for Permanent Commissions in His Majesty's Indian Medical Service. The terms offered include a gratuity of £1,000 on retirement after six years' service, or of £2,500 after 12 years' service, together with free return passages, for those who no longer desire to remain in the Service. In other respects the terms will be as detailed below.**

British subjects of pure European descent who are under 32 years of age who are registered under the Medical Acts in force in Great Britain and Northern Ireland are eligible to apply.

### CAREERS.

The Indian Medical Service offers a permanent career with wide opportunities of medical experience, including clinical, preventive, specialist, and research work. At the beginning of his career an officer is employed on the military side, which has medical charge of the Indian Army. Promotion is on a time scale up to the rank of Lieutenant-Colonel, and by selection to the ranks of Colonel and Major-General. An officer may apply after one year's Indian Service to have his name registered for transfer to the civil side, from which appointments are made to Civil Surgeoncies, which are established at the principal civil centres to provide for the medical needs of Civil Officials and for general medical administrative purposes; to specialist (for example, public health and bacteriological) services; to research posts; and to professorships at the Medical Schools.

### RATES OF PAY.

| Years of Service. | Rank. | Basic Pay. Rs. per mensem. | Overseas Pay. £ per month. | Total. £ per annum. |
|---|---|---|---|---|
| 1 | Lieutenant. | 450 | 15 | 585 |
| 2 | Captain. | 500 | 25 | 750 |
| 3 | " | 550 | 25 | 795 |
| 4 | " | 550 | 25 | 795 |
| 5 | " | 600 | 25 | 840 |
| 6 | " | 600 | 30 | 900 |
| 7 | " | 700 | 30 | 990 |
| 8 | " | 700 | 30 | 990 |
| 9 | " | 700 | 35 | 1050 |
| 10 | " | 700 | 35 | 1050 |
| 11 | Major. | 800 | 35 | 1140 |
| 12 | " | 800 | 40 | 1200 |
| 13 | " | 800 | 40 | 1200 |
| 14 | " | 800 | 40 | 1200 |
| 15 | " | 800 | 40 | 1200 |
| 16 | " | 950 | 40 | 1335 |
| 17 | " | 950 | 40 | 1335 |
| 18 | " | 950 | 40 | 1335 |
| 19 | " | 1100 | 40 | 1470 |
| 20 | " | 1100 | 40 | 1470 |
| 21 | Lieut.-Col. | 1350 | 40 | 1695 |
| 22 | " | 1350 | 40 | 1695 |
| 23 | " | 1350 | 40 | 1695 |
| 24 | " | 1500 | 40 | 1830 |
| 25 | " | 1500 | 40 | 1830 |

*Note.*—(1) The rupee is at present stabilized at a rate equivalent to 1*s.* 6*d.*
(2) An officer promoted to the rank of Lieut.-Colonel before completion of 20 years' service will receive pay at the rate of Rs. 1200 per mensem (basic) plus £40 per month overseas pay.

*Extras.*—In addition to the above rates various allowances are admissible for a large number of special appointments on both the military and the civil side which may be held by members of the Indian Medical Service. Special high rates of pay are also attached to the numerous administrative appointments open to officers in both branches of the Service.

### ANTEDATES IN COMMISSION.

Candidates possessing certain higher medical qualifications or holding the Diploma in Public Health may be granted an antedate in their commissions. Past service in certain hospital appointments may also render candidates eligible for an antedate. Persons holding or about to hold resident posts at recognized hospitals may be seconded in those posts for a period. The maximum period of antedate, secondment, or antedate and secondment combined, admissible under this paragraph, is limited to 18 months.

### OUTFIT ALLOWANCE.

Officers on appointment will receive an allowance of £75 towards the cost of outfit.

### PRIVATE PRACTICE.

With the exception of Administrative Officers, military or civil, and officers holding certain special appointments, officers are not debarred from taking private practice, so long as it does not interfere with their proper duties.

### LEAVE.

Leave can be taken at reasonable intervals, and adequate rates of leave pay are provided. Extra leave (known as study leave), which may not exceed twelve months in all during an officer's service, may be granted to officers desirous of pursuing special courses of study of a post-graduate nature. During such leave, study allowance, at present fixed at the rate of 12*s.* a day in the United Kingdom, £1 a day on the Continent of Europe, and £1 10*s.* a day in the United States of America and Canada, is granted to an officer in addition to ordinary rates of leave pay.

### PENSIONS.

The rates of pensions are as follows :—

| | Per annum. £ | s. |
|---|---|---|
| After 17 years' service for pension .. .. | 372 | 0 |
| " 18 " " " .. .. | 400 | 0 |
| " 19 " " " .. .. | 428 | 0 |
| " 20 " " " .. .. | 465 | 0 |
| " 21 " " " .. .. | 502 | 0 |
| " 22 " " " .. .. | 539 | 10 |
| " 23 " " " .. .. | 576 | 10 |
| " 24 " " " .. .. | 614 | 0 |
| " 25 " " " .. .. | 651 | 0 |
| " 26 " " " .. .. | 697 | 10 |
| " 27 " " " .. .. | 744 | 0 |

There are additional pensions ranging from £65 to £350 per annum for officers who have held administrative appointments.

### PASSAGES.

An officer on appointment is provided with free passage to India. The families of officers who are married prior to the date of the officers' embarkation on first appointment will also be provided with free passage to India, subject to the payment of messing charges. Officers and their families are also eligible for passage concessions under which they are granted a certain number of return passages home at Government expense during their service.

### INSTRUCTION PRIOR TO EMBARKATION.

Officers are required to undergo courses of instruction at the Royal Army Medical College and at Aldershot, lasting approximately three months, prior to their embarkation for India on first appointment. Information as to the rates of pay admissible during this period and subsequently up to arrival in India is contained in the memorandum referred to below.

**A memorandum giving full details regarding these appointments and forms of application may be obtained from the UNDER-SECRETARY OF STATE FOR INDIA, MILITARY DEPARTMENT, INDIA OFFICE, LONDON, S.W.1. The Selection Committee will meet at the India Office on 6th December, 1938, and the selected candidates, unless seconded for hospital appointments, will be required to join a course of instruction commencing on 1st January, 1939, prior to sailing for India in April, 1939. Applications should reach the India Office as soon as possible.**

INDIA OFFICE, November, 1938.

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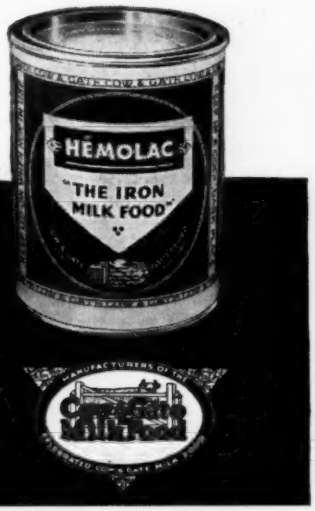


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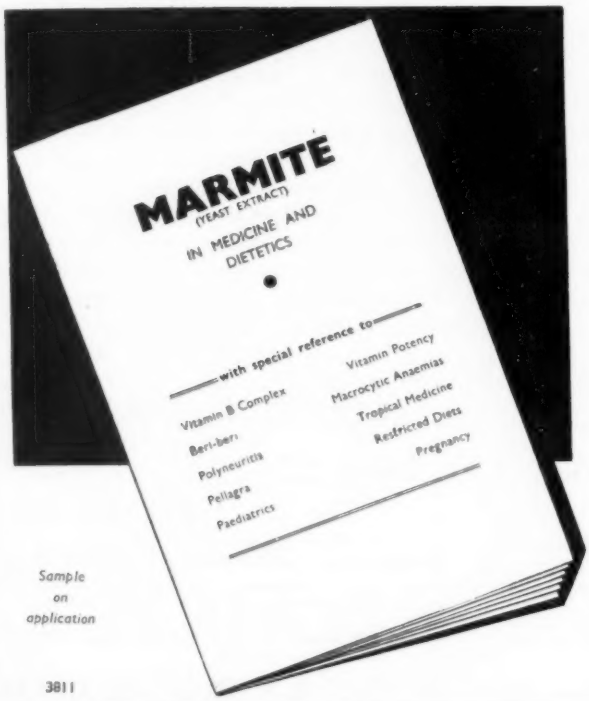


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[1] *British Medical Journal*, 1935, November 16th, p. 938.
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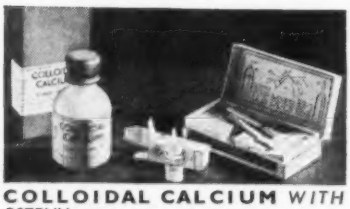

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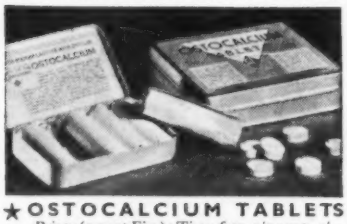

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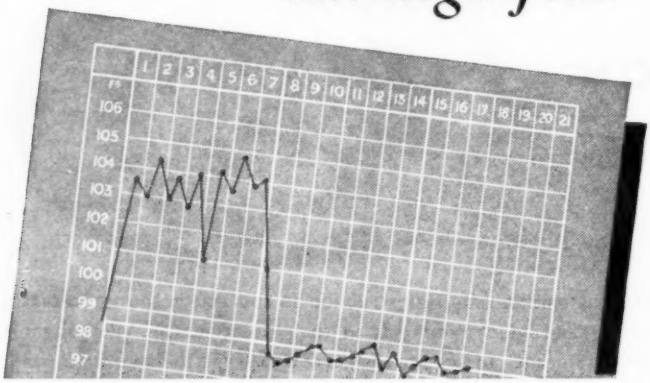


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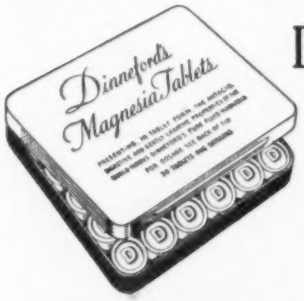


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OUR own long experience has shown us the heavy toll of present-day conditions on the nervous system, and while every Doctor has his own preferred treatment, we have been convinced by the many hundreds of testimonials we receive, that our nerve food has definitely assisted in recovery of serious cases.

Test Bilson's yourself and note its effect on your nerves—tired after hours of concentration—and you will then recommend it to your patients.

Bilson's Nerve Food is rich in organic calcium, sodium, phosphorus and iron. It is a valuable health builder and tonic for brain workers, and beneficial for growing children.

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PURE FOOD SPECIALISTS
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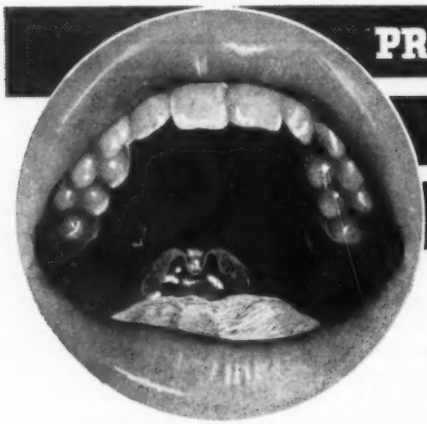
Telephone: Holborn 4710

Is stocked by leading chemists and health food stores. . . . We shall be pleased to send a professional sample on request.



*A Physician's sample of T.C.P. Antiseptic and literature will gladly be sent on request.*

## PROPHYLAXIS OF COMMON WINTER RESPIRATORY INFECTIONS ☆ ☆ ☆

Antiseptic gargles and sprays have an important place in the prevention of colds, tonsillitis and other winter ailments. But, for optimum efficiency, the antiseptic used must have certain "plus" features, in addition to high bactericidal properties. T.C.P. is an ideal antiseptic for this purpose, because it has so many of these "plus" characteristics. Chief among them are *stability* — the maintenance of germicidal efficiency in the presence of organic matter, saliva, blood, pus, etc.; *safety*—T.C.P. is neither irritant nor caustic; *penetrative power*—for the relief of congestion and the stimulation of capillary circulation and phagocytosis; and *analgesic action*—invaluable in painful throat conditions.

**FOR ROUTINE PROPHYLACTIC GARGLING *PRESCRIBE***

**BRITISH ALKALOIDS LTD.**
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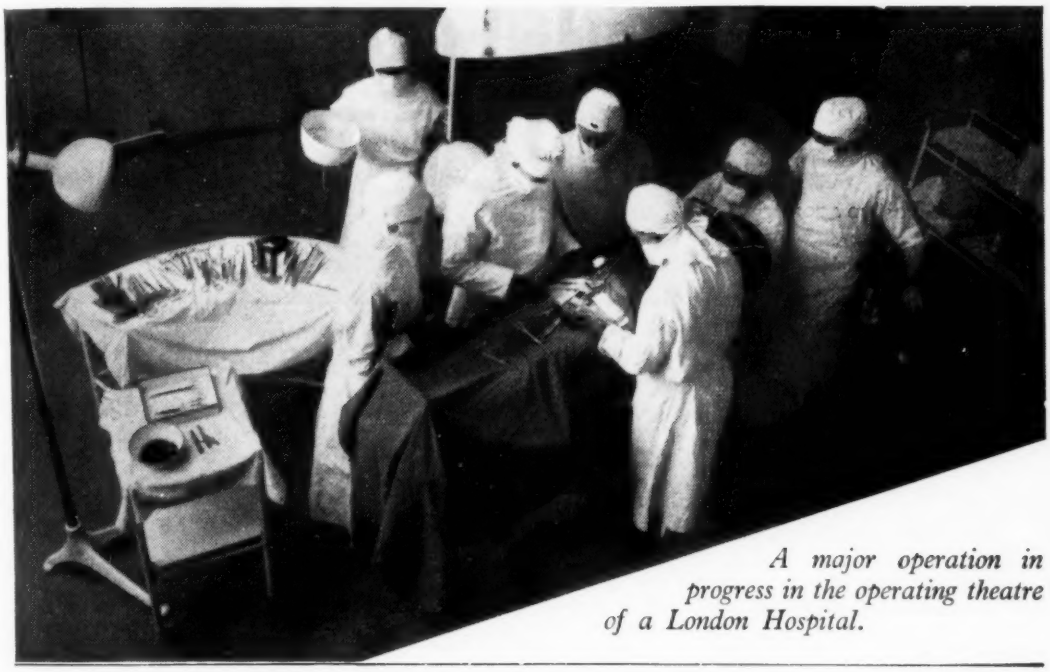
**T.C.P.** REGD. THE *plus* ANTISEPTIC



*A major operation in progress in the operating theatre of a London Hospital.*

# DEGREES OF PROTECTION....

THE most elaborate precautions against every possible chance of germ infection are of course essential in the operating theatre. It would be ridiculous, however, to expect anything approaching this meticulous attention to antiseptic cleanliness in everyday hygiene and in the home treatment of superficial wounds.

The general public is nevertheless beginning to realise the importance of germ-free cleanliness. Hygienic standards to-day are higher than they have ever been. It is generally agreed by medical men that although regular use of antiseptics is not desirable or really necessary for ordinary toilet purposes, the use of a reliable antiseptic soap can play a very valuable part in the prevention of infectious disease. Face and hands are continually exposed to infectious germs, and require washing with Wright's Coal Tar Soap.

Wright's has substantial antiseptic and antipruritic qualities. For over 70 years it has enjoyed the confidence of the medical profession, and to-day more doctors use Wright's than any other brand of toilet soap. Wright's Coal Tar Soap is prepared from materials selected after stringent tests. It is the only soap in the world to contain 'liquor carbonis detergens,' the valuable dermatological therapeutic recommended by skin specialists the world over. In surgeries, hospitals, nursing homes and private households Wright's meets all the requirements of modern everyday hygiene. You can use it and recommend it to your patients with complete confidence.

**WRIGHT'S**
**COAL TAR SOAP**
*The Safe Soap*

*Wright, Layman & Umney Ltd., 44-50 Southwark Street, S.E.1*

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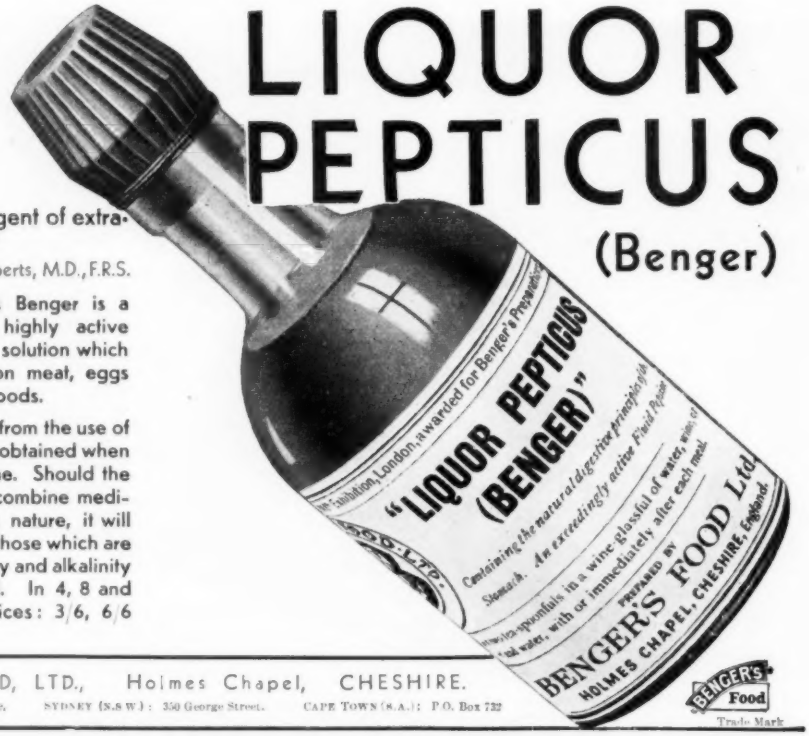


"A digestive agent of extraordinary power."
Sir William Roberts, M.D., F.R.S.

Liquor Pepticus Benger is a concentrated and highly active fluid pepsin in acid solution which acts particularly upon meat, eggs and other protein foods.

The best results from the use of Liquor Pepticus are obtained when it is prescribed alone. Should the prescriber wish to combine medicaments of a tonic nature, it will be recollected that those which are free from astringency and alkalinity should be selected. In 4, 8 and 16-oz. bottles. Prices: 3/6, 6/6 and 12/6.

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Today, as for years, Ergoapiol (Smith) is the accepted medicament in combating those menstrual anomalies which may be traced to constitutional disturbances; atonicity of the reproductive organs; inflammatory conditions of the uterus or its appendages; mental emotion or exposure to the elements.

The physician readily can ascertain whether his prescription for Ergoapiol (Smith) has been correctly filled by dividing the capsule at the seam, thus revealing the initials M.H.S. embossed on the *inner* surface, as shown in photographic enlargement.

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TRADE MARK **'Merthiolate'** BRAND

*Sodium Ethyl Mercuri Thiosalicylate*

**An antiseptic of outstanding usefulness in surgery and for first-aid treatment.**

**The intact skin may readily be prepared for operation by application of the Tincture. Traumatized tissues are disinfected by the Solution without appreciable damage to cellular elements. Both preparations of 'Merthiolate' are of a very low order of toxicity, are stable in solution, and are of maximum dependability in their bacteriostatic and germicidal effects.**

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A Mucilaginous Laxative with a natural mechanical action...

**'I-so-gel' GRANULES**

Indicated in

**CHRONIC CONSTIPATION, COLITIS,**

**and allied gastro-intestinal disorders**

"I-so-gel" is a natural vegetable material. The granules absorb many times their volume of water and swell into a firm, gelatinous mass which both stimulates natural intestinal movements and soothes inflamed intestinal mucous membrane. Indicated in chronic constipation, hæmorrhoids, colitis, dysentery, and allied gastro-intestinal disorders, and after colostomy. Action purely mechanical. Sugar-free. Ideal for diabetics.

In bottles at 3/- and 5/6 each

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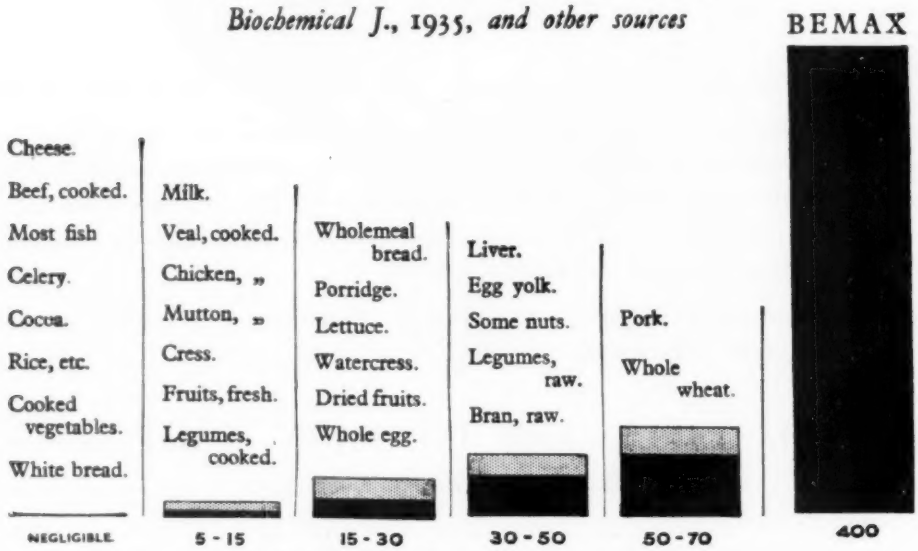
# VITAMIN $B_1$ IN FOODS

*Biochemical J., 1935, and other sources*




*The figures represent International Units per ounce.*

*Now is the time for* **IMMUNITY**

**AGAINST COLDS AND INFLUENZA**

Detoxicated Vaccines—*for Safety.* Ordinary Vaccines—*for Economy.*
Oral Vaccines—*for Convenience.* Spray Vaccines—*for Local Immunity in the Respiratory Tract.*

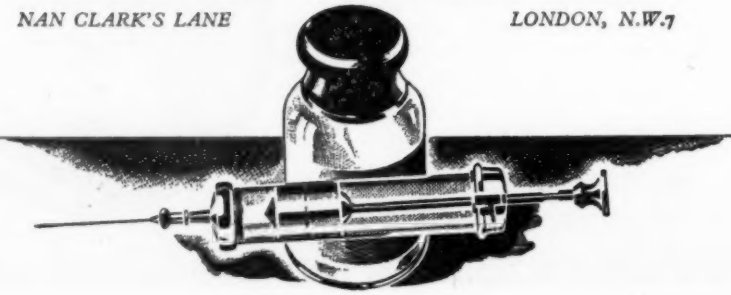
THE ABOVE VACCINES WHICH ARE PREPARED IN

**THE PICKETT-THOMSON RESEARCH LABORATORY**

*ARE NOW SUPPLIED ONLY BY*

**RESEARCH PRODUCTS LTD.**

*NAN CLARK'S LANE* *LONDON, N.W.7*



D.A.2

# "Vitamin $B_1$ deficiency an outstanding fault

## in the diet of many millions of people"

*(B.M.J., 16 Oct., 1937, p. 753)*

The reduction in Vitamin $B_1$ intake, due to changes in dietary habits during the last hundred years, normally amounts to at least 50 per cent., and may be as much as 70 per cent. It has been demonstrated, both experimentally and clinically, that a shortage of Vitamin B acts as a limiting factor in the maintenance of health and nutrition, and often results in gastro-intestinal disorders, loss of appetite, indigestion, constipation and, if long continued, to neuritis and arthritis.

The logical way to rectify such shortage is to restore to the diet the Vitamin B-containing substance whose removal is responsible for the deficiency.

This substance is available in the form of Bemax.

For years it has been the policy of the proprietors of Bemax to ensure its Vitamin $B_1$ activity by biological assay of *every day's output*. So far as is known, Bemax is the only food product for which such a claim is or can be made.

The quantity of Vitamin $B_1$ supplied by the normal daily dose of Bemax—one tablespoonful—is 200 International Units, an amount sufficient to raise a deficient diet to an optimal level.

The normal daily dose of Bemax supplies, in addition to Vitamin $B_1$, significant quantities of Vitamin $B_2$ and $B_6$, Copper, Iron and Phosphorus as well as rich quantities of Vitamin E and other essential dietary elements.

Bemax is an entirely natural product consisting only of stabilised wheat germs selected for their Vitamin $B_1$ activity with no addition whatsoever. Clinical sample and literature on request. Vitamins Ltd., The Bemax Laboratories (Dept.L.66), 23, Upper Mall, Hammersmith, W.6.

# Sterility and Habitual Abortion

The increasing use of Vitamin E for habitual abortion and sterility of dietary origin demands a wheat germ oil of proven high activity and of stable Vitamin value. Such an oil is available for the medical profession in Fertilol.

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**Wheat Germ Oil Capsules**

*A highly active source of Vitamin E.*

*A complimentary box of Fertilol Capsules and brochure sent on request.*

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# Allenburys Orange Juice

CONCENTRATED SWEETENED

Supplies a potent source of the anti-scorbutic vitamin C in a form convenient for infant feeding and other purposes.

It is equivalent to about four times as much fresh orange juice and retains its full activity for a long period.

Employed with advantage in all cases in which fresh orange juice is used.

May be taken by children and adults in the form of a delightful drink by diluting with about ten times its volume of plain or aerated water or milk.

**In bottles, 2/3 each**

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Further particulars and clinical sample will be sent post free on application.

# "ALOCOL"

*Colloidal Hydroxide of Aluminium*

## Rational Antacid Therapy

APART from those cases due to actual organic disease, the treatment of the syndrome of symptoms known as indigestion, generally resolves itself into an attempt to overcome hypersecretion of acid and to soothe the irritated or inflamed gastric mucosa.

That "Alocol" possesses intrinsic qualities which render it particularly valuable as a gastric sedative and antacid is now well established. Its freedom from the constipating effect of bismuth, the laxative action of magnesium salts and the gas-forming properties of sodium bicarbonate are especially noteworthy.

"Alocol" forms with the gastric contents a colloidal jelly which has the power of adsorbing free hydrochloric acid. Its markedly soothing effect on the gastric mucosa promptly relieves pain and discomfort. It does not interfere with the normal process of digestion and is free from the danger of "alkalosis."

*Indian. Saraswati playing the Vina. (12th Century)*

*Complete chemical history of "Alocol," with convincing clinical reports and supply for trial, sent free to physicians on request.*

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*Works and Laboratories:*
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M256

# ALASIL

## Better Salicylate Therapy

WHATEVER be the season of the year, there is a wide sphere of utility for "Alasil," the improved form of salicylate medication. "Alasil" is a very definite advance on ordinary compounds of salicylic or acetyl-salicylic acid both in therapeutic efficiency and in freedom from unpleasant gastro-intestinal sequelæ. This high tolerability is due to the fact that "Alasil" is composed of calcium acetyl-salicylate—the least irritating of the salicylate compounds—and "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid.

A careful series of experimental tests has recently shown that "Alasil" is more completely absorbed than ordinary salicylate compounds, and that it is practically free from the risk of liberating free salicylic acid in the stomach. Wide clinical experience anticipated these findings by demonstrating that the use of "Alasil" can be pushed or prolonged to a much greater extent than ordinary salicylate compounds, and that it can be given with equal safety to children, adults, the aged, and patients with finely-balanced digestive capacities.

*A supply for clinical trial with full descriptive literature sent free on request.*

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M269

TAXOL

*Formula*

| | |
|---|---|
| Intestinal glands - - | 0.05 grms. |
| Biliary extract - - | 0.10 ,, |
| Lactic ferments - - | 0.05 ,, |
| Agar-agar - - - - | 0.05 ,, |
| Fiat tablet - - - - | 0.35 ,, |

Initial Daily Dose
Two Tablets

*Laxatives*, it is well known nowadays, must have two essential characteristics.

1. They must be biological, i.e., they must accord with and imitate in their action the natural physiological processes of the intestine.
2. They must be capable of educating the intestine, so that the habit of a laxative is not formed and the intestine can function unaided when bowel adjustment is attained.

*Taxol* has both these advantages.

*Taxol* has not the violent irritant action of many laxatives and purgatives, but stimulates the intestine by processes which resemble those of nature. The intestinal gland which is an important part of its composition acts on the intestine by reinforcing the deficient function which has culminated in constipation. This stimulating action is gentle, and does not force the weakened intestine to efforts beyond its power, which would culminate in aggravation of the constipation.

*Taxol* is not habit-forming. It re-educates the intestine to resumption of normal function unaided, thanks to the biological nature of its action. It contains no irritant drug of violent and artificial action to which the intestine can become accustomed. On the contrary, many stubborn cases of constipation, after a course of TAXOL, revert to normal and regular peristalsis.

CONTINENTAL LABORATORIES LTD. 30 MARSHAM STREET, LONDON, S.W.1

# The Original and Standard Emulsion of Petroleum

**'Angiers' Emulsion**

is made with petroleum specially purified for internal use. It is the original petroleum emulsion — the result of many years of careful research and experiment.

**Bronchitis, Sub-Acute and Chronic**

There is a vast amount of evidence of the most positive character proving the efficacy of 'Angiers' in sub-acute and chronic bronchitis. It not only relieves the cough, facilitates expectoration and allays inflammation, but it likewise improves nutrition and effectually overcomes the constitutional debility so frequently associated with these cases. Bronchial patients are nearly always pleased with this emulsion, and often comment upon its soothing "comforting" effects.

**Pneumonia and Pleurisy**

The administration of 'Angiers' during and after Pneumonia and Pleurisy is strongly recommended by the best authorities for relieving the cough, pulmonary distress, and difficult expectoration. After the attack, when the patient's nutrition and vitality are at the lowest ebb, 'Angiers' is specially indicated because of its reinforcing influence upon the normal processes of digestion, assimilation and nutrition.

**In Gastro-Intestinal Disorders**

of a catarrhal, ulcerative, or tubercular nature, this emulsion is particularly useful. The minutely divided globules of petroleum reach the intestines unchanged, and mingle freely with intestinal contents. Fermentation is inhibited, irritation and inflammation of the intestinal mucosa rapidly reduced, and elimination of toxic material greatly facilitated.

*Free Samples to the Medical Profession*

THE ANGIER CHEMICAL COMPANY, LIMITED
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# ANGIERS
BRAND EMULSION

# An advance in Malt Extract Pharmacology

## "WANDER" MALT EXTRACT

### and its combinations in free granular crystalline form

**"Wander" Malt Extract** (*Crystalline*)

Superior in every way to liquid or viscous extracts of malt. A notable preparation for modifying cow's milk for infant feeding.

**"Wander" Malt Extract with Hæmoglobin** (*Crystalline*)

A hæmatinic tonic nutritive. Valuable in anæmia, chlorosis and phthisis, etc. Particularly palatable.

**"Wander" Malt Extract with Guaiacol Carbonate** (*Crystalline*)

The approved method of administering carbonate of guaiacol. A powerful respiratory and intestinal antiseptic.

**"Wander" Malt Extract with Comp. Glycerophosphates** (*Crystalline*)

Contains glycerophosphates of calcium, sodium, iron and magnesium. Indicated in nervous disorders, etc.

**"Wander" Malt Extract with Iron Iodide** (*Crystalline*)

Produces no symptons of "iodism," gastric disturbance or constipation. A serviceable preparation in tubercular conditions of glands, bones, joints, etc.

**"Wander" Malt Extract with Iron Pyrophosphate** (*Crystalline*)

The most readily assimilated of all inorganic forms of iron. Indicated in anæmic conditions.

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A bone-forming nutrient and digestive. Of proved value in rickets and malnutrition.

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Laxative, nutrient and digestive. Contains 50% of the purest liquid paraffin of high viscosity. Exceptionally palatable.

## Advantages

THE "Wander" Malt Extract Preparations appeal to the practitioner because of the many acknowledged points of advantage they possess over the usual liquid or semi-liquid products. Their desiccation *in vacuo* renders their concentration definite and secures permanency without necessity of adding the usual preservatives. Their granular crystalline character makes them much more pleasant and economical to handle and to administer. They are also more palatable, and are at once acceptable to children and fastidious patients. The attractive granules flow readily and cleanly from the bottle and do not adhere to measures or spoons.

The "Wander" Malt Extract Preparations are prepared only from the purest materials and each part of the process of manufacture is subject to the most rigid control. The products are standardised and the full potency of the active ingredients may always be depended upon.

Supplied by all Pharmacists.

*Clinical trial specimens will be gladly sent free to Medical men on request.*

A WANDER LTD.
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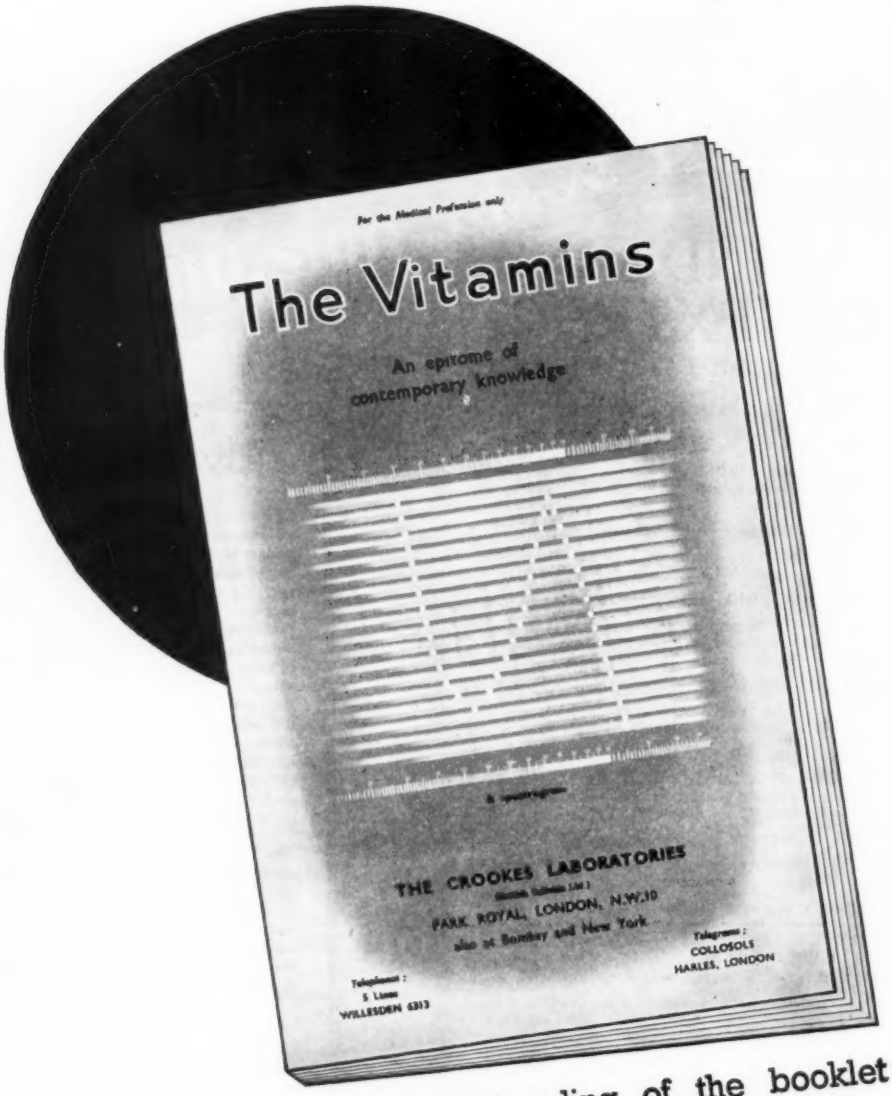


As the sub-heading of the booklet implies, this is an epitome of contemporary knowledge on the subject of Vitamins. A copy will gladly be sent free of charge upon request.

**THE CROOKES LABORATORIES**

(British Colloids Ltd.)

PARK ROYAL, LONDON, N.W.10.

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# A range of new purées

## *Uniformity and high nutritive qualities now available for general prescription*

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| PEAS | | |
|---|---|---|
| | PROTEIN | 4·8 |
| | CARBOHYDRATES | 6·8 |
| | CALCIUM | 0·012 |
| | PHOSPHORUS | 0·083 |
| | IRON | 0·0016 |
| | VITAMIN A. | GOOD |
| | VITAMIN B. | V.GOOD |
| | VITAMIN C. | V.GOOD |
| | VITAMIN G. | FAIR |
| | CALORIES PER OZ. | 17·0 |

*A typical example of the high nutritive values retained in Heinz Strained Foods. (Figures show percentages on the wet basis)*

Vegetable and fruit purées, rich in mineral salts, vitamins and other soluble nutriment, constitute the perfect diet for infants and cases of nutritional anaemia.

But despite the wide approval shown by physicians, and a growing appreciation of this dietary by mothers, progress has hitherto been slow, owing to the practical difficulties encountered in home preparation.

The use of vegetables not truly fresh, mechanical losses through oxidation when boiling, and inefficient sieving out of the harsh fibres, inevitably impair the quality of the home-produced preparation.

Now, with the marketing of a range of strained foods by H. J. Heinz Co. Ltd., vegetable and fruit purées containing all necessary dietetic values are available in convenient bulk and form.

Heinz Strained Foods are prepared with all the advantages of the best factory method. The vegetables are specially grown in those areas where soil and climate combine to produce the best; they are harvested when they are just right, and cooked within a few hours of being garnered.

First, the ingredients are scrupulously cleaned. Cooking by light steam pressure in vacuum containers follows, leaving the contents perfectly disposed for comminution by extrusion, and at the same time ensuring retention of the essential juices and mineral constituents. Fine sieving having removed all fibres of a harsh or irritant nature, the purée is then adjusted to an acceptable consistency and sealed in vacuo, the sealed containers being immediately subjected to sterilization under constant conditions of time and temperature.

The purées thus offered are uniform, convenient and of the highest possible nutritive content.

NOTE: *Glass containers are not used owing to the deleterious effect of light on the value and palatability of the purées.*

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# STRAINED FOODS

SPINACH
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VEGETABLE SOUP
PEAS
GREEN BEANS
MIXED GREENS
BEETS
PRUNES
CEREAL
APRICOTS AND APPLE SAUCE
BEEF & LIVER SOUP

★ ***Fully explanatory literature and samples gladly sent on request.***

H. J. HEINZ COMPANY LIMITED, HARLESDEN, LONDON, N.W.10

# HOW WHOLE WHEAT CRISPBREAD BENEFITS HEALTH

WHEAT has always been Man's first choice among the cereals, whenever climatic conditions did not prevent his getting it. That remains true of all bread, either white or wholemeal, either soft or biscuit-crisp. And Vita-Weat, the wheaten crispbread with the WHOLE of the wheat left in it, has advantages which entitle it to a very high place among the staple foods of the world.

**Its Calorific Value**

Bread is *the* 'energy component' and Vita-Weat, since it contains only 3 per cent. of water, has a fuel-value nearly twice that of ordinary bread—according to The Practitioner its calorie value is 2,132 per lb.

Each section of such a crispbread—each 'slice,' so to speak—has a calorie value of 37. That is to say that in meeting what is probably the greatest requirement of a national staple food Vita-Weat is almost twice as effective as the softer kinds of wheaten bread.

**Starch and Digestion**

A crispbread, obviously, calls for a more thorough chewing than a soft 'crumb' bread and salivation is therefore more healthily promoted. The starches and cellulose in Vita-Weat are also 'converted' into a more digestible form by the special processes which go to make a good crispbread—just as toast and crust have become greatly more digestible than bread in its quite 'unconverted' starchy form. While *all* the wheat-berry is used the bran and fibre are thoroughly disintegrated.

The result is, therefore, that the weight which quantities of 'unconverted' starch place on the digestion is almost entirely eliminated where Vita-Weat has been prescribed.

**VITA-WEAT AND ITS ADVANTAGES**

In addition to these great advantages of superior fuel-value and digestibility Vita-Weat retains the 'protective' elements of the wheat-berry which are frequently rejected in the 'refining' of white flours. Proteins, vitamins and minerals in which bread is normally deficient are present and the 'balance' of this crispbread as a food is therefore increased.

The use of Vita-Weat can be shown to be especially desirable in cases of mild anaemia, liability to infection, lack of appetite, poor digestion, diabetes, obesity and as a food of 'protective' value to the teeth.

*A little booklet has been prepared for the medical profession briefly summarising the medical case for a whole wheat crispbread and it will gladly be sent post-free to any doctor on application to Peek Frean & Co. Ltd., Keetons Road, London, S.E.16.*

Vita-Weat

THE BRITISH WHOLE WHEAT CRISPBREAD

# COD LIVER OIL DOSAGE AND VITAMIN CONTENT —THE OFFICIAL RULING

**Many practitioners have found that their patients still believe it necessary to take large doses of cod liver oil, and in consequence resort to other liver oils of uncertain origin and widely varying vitamin content. Reference, however, to the latest Addendum (1936) of the British Pharmacopœia shows that the standard dosage for cod liver oil is very much smaller than conventionally supposed, and, moreover, that a definite vitamin content and origin are specified.**

The ruling on vitamin content is that each gramme of cod liver oil shall contain not less than 600 International Units of Vitamin A and not less than 85 International Units of Vitamin D. Given this content, the minimum dose of cod liver oil is fixed at 15 minims (a quarter teaspoonful) three times a day.

The advantages of being able to prescribe a cod liver oil which is guaranteed to conform to this ruling of the British Pharmacopœia are obvious. The smaller dose is readily acceptable by the patient, which fact makes it unnecessary to resort to other liver oils whose vitamin contents are uncertain both as to origin and efficiency and which have none of the proved food values of Cod Liver Oil.

'SevenSeaS' Cod Liver Oil is guaranteed to conform to the British Pharmacopœia requirements, and it has the additional advantage of being made from absolutely *fresh* livers. The small dose of Cod Liver Oil now needed and the pleasant taste of 'SevenSeaS' Cod Liver Oil arise from the fact that 'SevenSeaS' trawlers are equipped to render the oil on board, immediately the fish are caught. This is possible only with cods' livers, owing to their high percentage of oil. It cannot be done with the livers of other fish.

In the case of 'SevenSeaS' High Potency Oil, the dosage is reduced to a matter of drops only, for this oil has a guaranteed vitamin content of four times British Pharmacopœia standard. It is not concentrated or fortified in any way, but is obtained simply by selection from fresh cod livers with a naturally high vitamin content. This High Potency Oil should be of particular interest to practitioners wishing to prescribe for patients who cannot assimilate fat or have a tendency towards acidosis.

All 'SevenSeaS' oil is thoroughly tested before being issued to the public. It is prepared and packed in strict conformity with British Pharmacopœia requirements. Samples of the High Potency Oil, the Standard Oil, and the High Potency Oil in capsules will be sent on request.

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD. · ST. ANDREW'S DOCK HULL · ENGLAND

# THE PATIENT'S INSISTENT NEED

Pain is the dominant symptom which induces the majority of patients to seek medical aid; hence the practitioner's reputation depends in no small degree upon his skill in relieving pain. For this he cannot have a more reliable ally than Veganin.

Veganin presents a synergistic combination of acetylsalicylic acid, phenacetin and codeine and is considered one of the safest analgesics. It is quickly absorbed and its action is prompt and prolonged.

Veganin affords effective relief in a vast number of painful conditions and alleviates the nervousness that so frequently accompanies them. There is no aftermath of languor and no systemic disturbance.

*INDICATIONS—*

*Veganin has proved particularly serviceable in the treatment of headaches, migraine, rheumatic affections, post-operative and post-puerperal pain, in the backache and muscular pains of influenza.*

•

*Veganin Tablets are not advertised to the public.*

•

*Supplied in tubes of* 10 *and* 20; *boxes of* 100, 500 *and* 1,000 *for dispensing.*

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*A supply for clinical trial sent on request.*

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POWER ROAD · CHISWICK
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# VOLPAR

In a letter to The Lancet dated October 22nd, the medical members of the Birth Control Investigation Committee stated that contraceptive methods which involved the use of mechanical appliances are not easily practicable by all elements in the community. '*The possibilities*', they add, '*of a chemical method which dispensed with mechanical appliances therefore called for careful investigation*'.

In these words were described the origin and objects of an inquiry that has been carried out for ten years under the Committee's auspices. Volpar is the outcome—a contraceptive which, in the Committee's words, is 'spermicidally efficient to a high degree, completely harmless, æsthetically acceptable, and cheap'. Whether Volpar, when used alone, will give complete protection against pregnancy can only be discovered by prolonged clinical trials. These have been begun and, until now, have yielded promising results. The response of Volpar to laboratory tests is superior to that of any other spermicide on the market.

A booklet containing particulars of the investigation which led to the production of Volpar will be sent post free to any physician on request.

Volpar preparations are available in the form of gels and of paste.

**Volpar Gels** are soluble vaginal suppositories primarily intended for use alone, or (for maximum safety) with a cap or sheath. They are issued in screw-capped glass tubes containing 1 dozen gels: price 2s. 0d. per tube.

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*Volpar Gels and Volpar Paste are sold to the public only through the retail pharmacist.*

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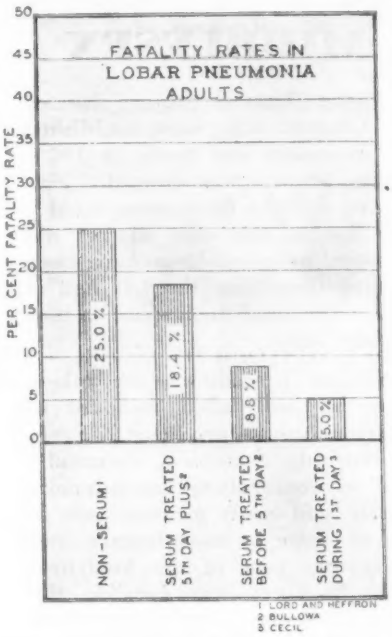
Bacteræmia, a serious development, occurs with considerably less frequency in cases where early, adequate serum therapy is instituted.

Bacteræmia appears at varying times in the course of the disease, but usually after the third day.




BULLOWA* has presented the following significant facts concerning bacteræmia in Type 1 and Type 2 pneumonias—

> In non-serum treated cases, the incidence of bacteræmia is 25% in Type 1 and 43% in Type 2. The mortality in each of these bacteræmias is close to 75% if serum is not used, and considerably lower when serum is used.

The importance of immediate typing, even at the first suspicion of pneumonia, cannot be overemphasised.

*BULLOWA, J. G. M. "The Management of the Pneumonias" Oxford University Press, 1937

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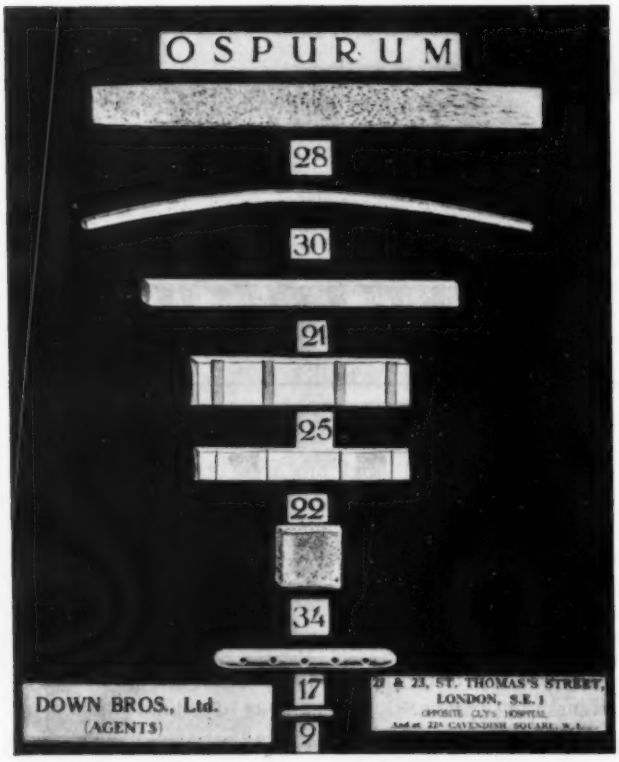


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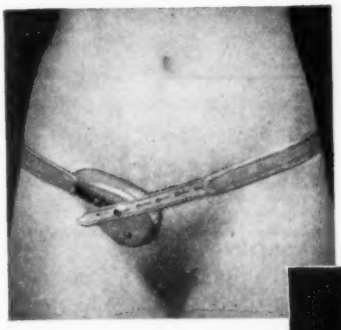

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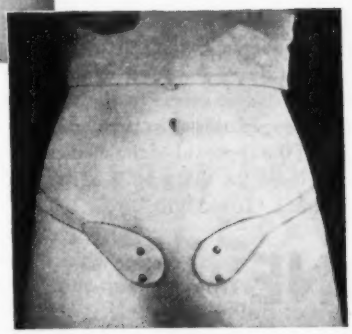

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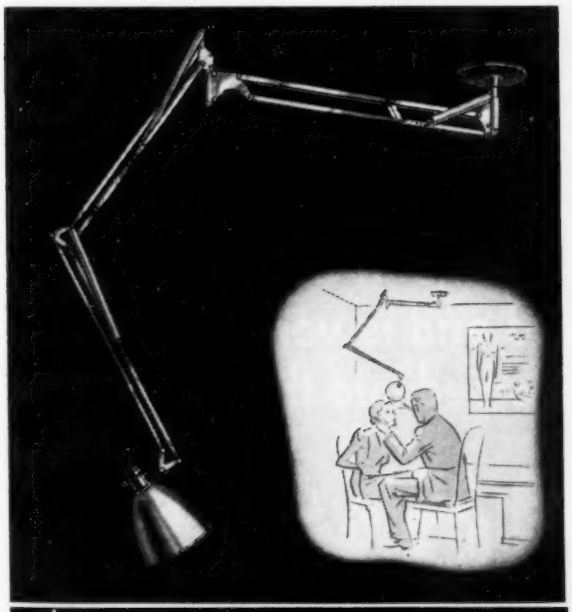

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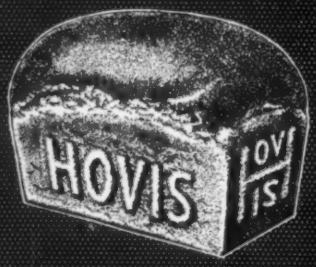


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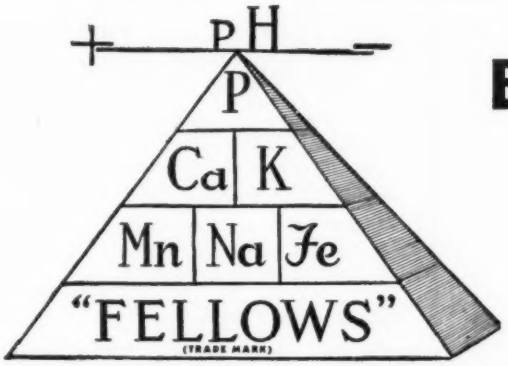


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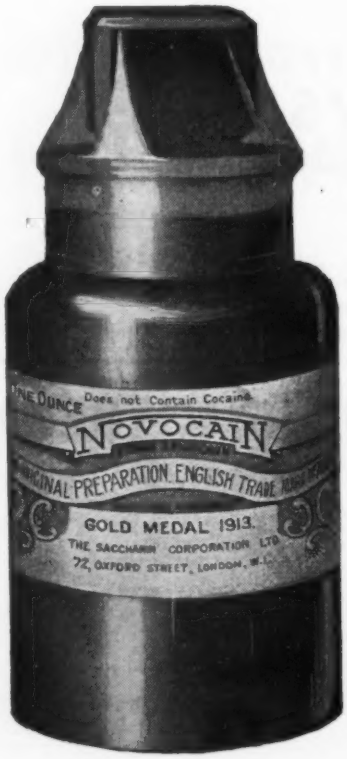


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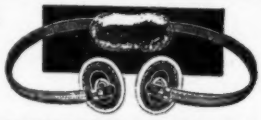

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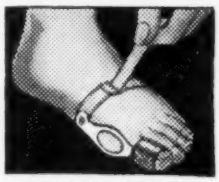

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(Pathology, Medicine, Surgery, and Midwifery)
Wednesday, December 28th.

Candidates who have fulfilled the necessary conditions, and who desire to present themselves for examination, must give notice in writing to the Secretary, Examination Hall, 8/11, Queen-square, London, W.C.1, at least twenty-one days before the date of the examination, transmitting at the same time such certificates as may be required by the Regulations of the Board.

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**Rooms now available from 5 guineas weekly.**

Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

For particulars apply to the Secretary, Pendyffryn Hall, near Penmaenmawr, North Wales. 'Phone 20

## HEIGHAM HALL, NORWICH

**A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.**

Apply to Dr. J. A. SMALL.
Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

## Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received.
Apply to Dr. HAYNES. Tel.: Brentwood 45.

## BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.
Telephone: No. 6207 Gloucester.

## EPILEPSY

Owing to extensions there are at present a few Vacancies at the

**DAVID LEWIS COLONY**

For Ladies and Gentlemen who have Epilepsy but are of good intelligence and sound mind.

Colony life gives to most people who have epilepsy the best chance of happiness and contentment.

Apply to the DIRECTOR, THE DAVID LEWIS COLONY, WARFORD, ALDERLEY EDGE.

## CLARENCE LODGE

**CLAPHAM PARK, LONDON**

Situated in 3½ acres of secluded gardens.

**HOME FOR TWELVE MENTAL PATIENTS (LADIES).**

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

*Station:* Clapham Common Tube.

*Phone:* Tulse Hill 4913

Apply MISS THWAITES.

## NORTHUMBERLAND HOUSE

GREEN LANES,
FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

*Telephone:* Stamford Hill 2688.

For further particulars apply to the MEDICAL SUPERINTENDENT.

## THE ARCHER NERVE TRAINING COLONY

**LANGLEY RISE, KING'S LANGLEY, HERTS.**

Started 34 years ago by the late Mrs. William Archer for the special treatment of **FUNCTIONAL NERVOUS DISORDERS** by a system of Relaxation correlated with training in Nerve Control. Home life in separate houses in charming grounds; 20 miles from London; Chalets for resting. Eurhythmics, Voice Production, Occupational Therapy, etc. Telephone: King's Langley 7519. Lessons and Treatments in the art of Relaxation can also be obtained at the "**FRANCES ARCHER**" Centre, 30, Dorset Sq., N.W.1 (near Baker St. Stn.), Weds. and Sats. 10–1 p.m., 2–5.30 p.m. Tel.: Ambassador 2864. All applications to the Secretary, King's Langley.

## SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

**For Mental Cases with or without Certificates.**

*Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).*

For forms of admission &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

## THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

## HOME FOR EPILEPTICS

**MAGHULL (near LIVERPOOL)**

**FARMING and OPEN AIR OCCUPATION for PATIENTS**

**A few vacancies in 1st and 2nd Class Houses.**

FEES: 1st Class (men only) from £3 p.w. upwards.
2nd Class (men and women) 32/- p.w.

*For further particulars apply:*
**C. EDGAR GRISEWOOD, A.C.A., Secretary,**
**20 Exchange Street East, Liverpool, 2**

## RUSSELLS

**Hemel Hempstead Road,**

**WATFORD**

**Telephone: WATFORD 5917**

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

# STRETTON HOUSE,

**Church Stretton, Shropshire.**

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

## CITY OF LONDON MENTAL HOSPITAL

**Near DARTFORD, KENT.**

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

# FENSTANTON

**Christchurch Road, Streatham Hill, S.W.2**

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

*Apply:* **Dr. MADELINE R. LOCKWOOD,** *phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

# ALCOHOLISM

***Drug Habits, and Nervous Disorders***

25 minutes from London, situated in charming grounds and country is a "home from home" for those seeking rest and treatment under medical supervision. Fees from 6 guineas. Illustrated brochure on application to the Matron or the **RESIDENT MEDICAL SUPERINTENDENT,** E. G. MORRIS, L.R.C.S.I., L.R.C.P.I. Consultant: L. C. F. CHEVENS, M.R.C.S., L.R.C.P., D.P.M.

**'Phone: CHISLEHURST 451**

# OLD HILL HOUSE

**CHISLEHURST, KENT.**

# DR. BINSWANGER SANATORIUM BELLEVUE

KREUZLINGEN — SWITZERLAND

**for Nervous and Mental cases**

as well as all kinds of addiction

(Insulin shock treatment)

Doctor in charge: DR. LUDWIG BINSWANGER

Prospectus on application to the Management

## The Physical Treatment Centre that is "different"!

50 minutes from London (Victoria). 15 minutes from Brighton. Standing in 7 acres of lovely grounds at the foot of the South Downs.

**Climate,** mild but not relaxing. No fogs, sheltered from cold winds.

**Comfort,** Service and every facility for Physical Treatment, without irksome restrictions of nursing home or clinic.

**Treatments,** include: Foam Baths, Ultra-Violet and Infra-red Ray, Diathermy, and other Electrical treatments, Pistany Mud Packs, etc. Massage and Remedial Exercises, Fully-qualified staff. Resident Physician.

**Convalescent** patients specially catered for.

Electric Lift to all floors. Fully Licensed. Superb Cuisine, Special Dieting if required.

● *Medical Practitioners are cordially invited to visit the Restorium. Write for Brochure and Terms to: Physician in Charge, Sunnyside Restorium, Hassocks, Sussex. Telephone: Hassocks 103.*

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## Grove House, All Stretton, Church

STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. McCLINTOCK, Proprietor and Resident Medical Superintendent.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

**NERVOUS & MENTAL AFFECTIONS**

***Ladies only received***

## The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses McLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

# RHEUMA SPA, KINMEL HALL,

**ABERGELE, NORTH WALES**

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

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Great Britain's Greatest Hydro

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Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

*Resident Physicians:* G. C. R. HARRINSON, M.B., B.Ch., B.A.O.(R.U.I.), H. RHYS DAVIS, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*

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Newly fitted Balneological and Electro-Medical and Small Turkish and Russian Bath sections for recognised forms of Spa, etc., treatment, under mild winter climatic conditions. Large Cooling Lounge, and "Vita" Glass Sun Lounge. Warm Sea-Water Swimming Bath with modern filtration plant. Assistants with C.S.M.M.G., and Bio-Physical qualifications.

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THE THERMAL ESTABLISHMENT WHOSE TREATMENT BY THE FAMOUS **MUD BATHS** WITH APPROPRIATE DIET IS UNRIVALLED FOR **RHEUMATISM.**

**OPEN ALL THE YEAR ROUND.**

Through trains from Paris. On the main line to Biarritz and Pau.

*For information or literature, apply to:*

FEDERATION OF THE HEALTH RESORTS OF FRANCE, BRITISH MEDICAL ASSOCIATION HOUSE, TAVISTOCK SQUARE, LONDON, W.C.I

or FRENCH RAILWAYS—NATIONAL TOURIST OFFICE, 179, PICCADILLY, LONDON, W.I

or SOCIÉTÉ DES EAUX THERMALES, DAX (FRANCE)

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**20 Devonshire Place**
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*Tel.: Welbeck 4444 (20 lines)*

**A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES**

Fees 10 gns. to 18 gns. per week (Average—14 gns.).
8 Operating Theatres.
150 State Registered Nurses.
2 Resident Medical Officers (for emergencies).
Patients only received under the supervision of their own Medical Practitioner.
Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified registered Medical Men or Women for the half-time post of REGISTRAR in the Ear, Nose, and Throat Department. Preference will be given to candidates with the Fellowship of England, Edinburgh or the D.L.O. qualification. Intending candidates should submit applications, stating age and accompanied by copies of three recent testimonials, to the undersigned (from whom all information may be obtained) on or before the 8th December, 1938.

Duties to commence 1st January, 1939.

Present holder, being eligible, is a candidate for reappointment.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited for the whole-time post of SURGICAL REGISTRAR. Candidates must be Fellows of the Royal College of Surgeons (England). Salary £200 per annum.

Applications, stating age, and accompanied by copies of three recent testimonials, must be sent to the undersigned (from whom all information may be obtained) on or before 8th December, 1938.

Duties to commence 1st January, 1939.

RICHARD J. BARTLEY, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Practitioners for the post of ANÆSTHETIC REGISTRAR at the above Hospital for one year from 1st February, 1939, with option to apply for reappointment for two subsequent years.

The post is a non-resident one, and carries with it a remuneration of £100 per annum.

Candidates should have had experience in all forms of Anæsthetics, including Dental work.

They should submit applications, with copies of three recent testimonials, stating age and qualifications, to the undersigned on or before 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited for the post of DISTRICT OBSTETRIC ASSISTANT, tenable for six months in the first place at a salary of £100 per annum; at the discretion of the Professor of the Unit for a further six months at a salary of £200 per annum. Duties to commence 1st February, 1939. Candidates must be duly qualified registered Medical Women.

Application form may be obtained from the undersigned and should be duly filled in and returned on or before the 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited for the half-time post of GYNÆCOLOGICAL REGISTRAR from duly qualified and registered Medical Women.

This post is reserved for former students of the London (Royal Free Hospital) School of Medicine for Women. Salary £100 per annum.

Applications, stating age, and accompanied by copies of three recent testimonials, must be sent to the undersigned (from whom all information may be obtained) on or before the 8th December, 1938. Duties to commence 1st January, 1939.

Present holder, being eligible, is a candidate for reappointment.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

RESIDENT CASUALTY OFFICER.

Duties to commence 1st January, 1939, for six months. Salary £150 per annum.

Application form may be obtained from the undersigned, and should be duly filled in and returned on or before the 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited from Medical Women of six months' or more experience for the post of IN-PATIENT OBSTETRIC ASSISTANT (Anæsthetic duties included). The appointment is for six months from 1st February, 1939.

Application form may be obtained from the undersigned, and should be duly filled in and returned on or before the 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited for the whole-time post of MEDICAL REGISTRAR. Salary £200 per annum. Intending candidates, who must be fully qualified and registered, should submit applications, stating age and accompanied by copies of three recent testimonials, to the undersigned (from whom all information may be obtained) on or before 8th December, 1938.

Duties to commence 1st January, 1939.

RICHARD T. BARTLEY, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post :—

FOURTH HOUSE SURGEON.

Duties to commence 1st February, 1939, for six months.

Application form may be obtained from the undersigned, and should be duly filled in and returned on or before the 8th December, 1938.

RICHARD T. BARTLEY, Secretary.

## Evelina Hospital for Sick Children,
Southwark, S.E.1.

Applications are invited for the post of HOUSE SURGEON (Male) for six months from December 12th (first two months in the Casualty and Out-patients Department). Salary at the rate of £120 per annum, with board and residence.

Applications, with copies of three recent testimonials, should be sent to the undersigned, from whom particulars can be obtained, not later than first post on Tuesday, 22nd November.

W. H. SIDNELL, House Governor.

## Samaritan Free Hospital for Women,
Marylebone-road, N.W.1.

Applications are invited for the post of ANÆSTHETIST to attend on Tuesday mornings and Wednesday afternoons.

Applications, accompanied by copies only of three testimonials, should reach the Secretary at the Hospital before NOON, Thursday, 1st December, 1938.

G. H. HAWKINS, Secretary.

## Connaught Hospital, E.17.
FOR WALTHAMSTOW, LEYTON, WANSTEAD, AND CHINGFORD.
(118 Beds and extending.)

Applications are invited for the post of HONORARY DERMATOLOGIST to the above Hospital. Gentlemen desirous of applying should be Fellows or Members of the Royal College of Physicians, and, preferably, on the staff of a London Teaching Hospital.

Applications should be received by Saturday, 3rd December.

Further details can be obtained upon application to the undersigned.

R. HALTON HARRISON, Secretary.

## THE ARMY DENTAL CORPS

Applications are invited from DENTAL SURGEONS for appointment to commissions in The Army Dental Corps.

Candidates, who should not be over twenty-eight years of age, will for the present be selected for commissions without competitive examination, but will be required to present themselves in London for interview and physical examination. They must hold the degree or diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts.

Successful candidates will, in the first instance, be given short service commissions for six years, at the end of which period they will retire with a gratuity of £1000, unless they have been granted permanent commissions. Permanent commissions will be given to officers selected from among those who wish to make the Army their permanent career.

Particulars, including Regulations for admission, pay and allowances, and forms of application may be obtained on request either in writing or in person to the Director, Army Dental Service, The War Office, London, S.W.1.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in January, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list, and periods of unemployed or half pay are very rare. The assistance of private income is not necessary for the purpose of supplementing official pay and allowances.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 21st November, 1938.

## Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

An OUT-PATIENT MEDICAL OFFICER is required on 1st January, 1939, by the above Hospital. The appointment is for six months and renewable for another six months subject to agreement on both sides. The holder of this post will be official deputy for the Resident Medical Officer. Salary at the rate of £175 per annum, with board, residence, and laundry. Candidates, who must be properly registered in this country, are invited to send in their applications addressed to the Secretary not later than first post on Tuesday, 22nd November, with copies of not more than three recent testimonials, and evidence of having held a responsible Hospital appointment. Forms of application and copies of the rules may be obtained from the Secretary-Superintendent.

## Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A HOUSE SURGEON is required on 1st January, 1939, by the above Hospital. Candidates are invited to send in their applications, addressed to the Secretary, not later than first post on Tuesday, 22nd November, accompanied by copies of not more than three recent testimonials, and evidence of having held a responsible Hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry. Candidates must be properly registered in this country.

Forms of application and copies of the rules may be obtained from the Secretary-Superintendent.

## Princess Elizabeth of York Hospital

FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds and 30 Convalescent Beds at Bognor.)

A RESIDENT MEDICAL OFFICER is required on 1st January, 1939. Gentlemen are invited to send in their applications, addressed to the Secretary, not later than first post on Tuesday, 22nd November, with copies of not more than three testimonials and evidence of having held a responsible Hospital appointment. The appointment is for one year. Salary at the rate of £200 per annum, with board, residence, and laundry.

Candidates must be properly registered in this country.

Forms of application and copies of the rules may be obtained from the Secretary-Superintendent.

## The Hospital for Women,

Soho-square, London, W.1.

Applications are invited for the post of RESIDENT MEDICAL OFFICER for a period of six months, commencing 1st January, 1939. The salary is at the rate of £100 per annum, with board, residence, and laundry.

Applications and testimonials must reach the undersigned by 10th December, 1938.

J. P. HEMING, Secretary.

## GENERAL POST OFFICE

HEADQUARTERS MEDICAL BRANCH (MALE STAFF).

There is a vacancy for a MALE ASSISTANT MEDICAL OFFICER in the Headquarters Medical Branch. The appointment is pensionable and carries a salary which commences at £500 a year and rises by annual increments of £25 to a maximum of £800 a year. The rates of salary are liable to review.

Each candidate must be a fully qualified Medical Practitioner, a natural-born British subject, and the child of a person who is or was at the time of death, a British subject. Preference will be given to candidates under thirty who have held one or more hospital appointments. The successful candidate will not be allowed to engage in private practice in addition to his official duties.

Applications, stating qualifications, age, &c., with copies of any recent testimonials, should be sent to the Chief Medical Officer, General Post Office, London, E.C.1. not later than the 3rd December, 1938.

Political influence should not be sought in support of applications; it would prejudice rather than assist the candidature.

The Male Medical Staff at Headquarters consists at present of a Chief Medical Officer, a Second Medical Officer, and four Assistant Medical Officers. Information as to the duties can be obtained from the Chief Medical Officer.

Candidates may be required to attend for personal interview in London at their own expense.

## St. John's Hospital, Lewisham, S.E.13.

Applications are invited to fill the appointment of ORTHOPÆDIC REGISTRAR. The successful candidate is required to attend the hospital on Wednesday mornings. An honorarium of 35 guineas per annum is paid.

Applications, with particulars of qualifications and experience, should be addressed to the undersigned as soon as possible.

J. C. GILBERT, Secretary-Superintendent.

## Paddington Green Children's Hospital

(Incorporated), London, W.2.

Applications are invited for the appointment of HONORARY PHYSICIAN to the SKIN DEPARTMENT.

Candidates must be Members of the Royal College of Physicians, London.

Applications, stating age and qualifications, accompanied by copies of three testimonials, should reach the undersigned as soon as possible.

JAMES A. HAMLIN, Secretary.

## Maida Vale Hospital for Nervous

DISEASES, London, W.9.

MEDICAL REGISTRARS.

Applications are invited for two posts of Medical Registrar. The appointments will be for one year from the 1st January, 1939, and are renewable for a further year. Honorarium £100.

One of the present Medical Registrars is a candidate for reappointment.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned not later than 25th November.

L. C. DIXON Secretary and General Superintendent.

## The Prince of Wales's General Hospital,

London, N.15. (238 Beds.)

Applications are invited for the posts of HONORARY CLINICAL ASSISTANTS in the various Departments of the Hospital (Surgical, Medical, Children, Skin, Ear, Nose, and Throat, Eye, Gynæcological, X-ray and Electrical) for the year 1938.

Applications for appointment to any of these posts should be sent to the undersigned on or before Friday, November 25th, 1939

J. C. BURDETT, Director and House Governor.

## The London Lock Hospital.

Applications are invited for the appointment of two SURGICAL REGISTRARS (Male) to the Lock Hospitals at Dean-street (Men) and Harrow-road (Women). Candidates must be Fellows (or Members) of the Royal College of Surgeons of England, or Surgical Graduates of a University of the United Kingdom. One candidate should preferably have had some previous obstetrical experience. The appointments are for one year in the first instance, commencing as at 1st December. Honorarium at the rate of £100 per annum.

Applications, with three copies of testimonials, must be in the hands of the Secretary not later than first post on Tuesday, 29th November, from whom any further information relating to the appointment can be obtained.

4th November, 1938, 283, Harrow-road, W.9.

## The Queen's Hospital for Children,

Hackney-road, E.2.
(204 Beds.)

The Board of Management invite applications for the post of EAR, NOSE, AND THROAT SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England or of another recognised College. Attendance required two half-days weekly. The appointed candidate will have charge of beds. An honorarium to cover travelling expenses will be paid.

Further information may be obtained from the undersigned, to whom applications, with copies of three recent testimonials, should be sent not later than November 23rd, 1938.

CHARLES H. BESSELL, Secretary.

## The Princess Beatrice Hospital,

Earl's Court, S.W.5.
General Hospital.

HONORARY ANÆSTHETIST.

Applications are invited from fully qualified Medical Practitioners for the post of Honorary Anæsthetist to the Hospital. Dental session Wednesday morning; other sessions may be required of him. Honorarium, one guinea per session.

Applications, giving qualifications, age, &c., together with copies of not more than three recent testimonials, should be sent to the Secretary, The Princess Beatrice Hospital, 194, Finborough-road, S.W.10, by November 21st, 1938.

## University of London.

Applications are invited for the GEOFFREY E. DUVEEN TRAVELLING STUDENTSHIP in OTO-RHINO-LARYNGOLOGY, value £450 a year. Candidates must be registered as Medical Practitioners by the General Medical Council or have had previous education and experience which, in the opinion of the University, qualifies them to undertake research in the subject of Oto-Rhino-Laryngology or in any part thereof.

Applications should reach the University on or before 31st December, 1938, and must be made on the prescribed form, which may be obtained, together with further particulars, from the Academic Registrar, Senate House, University of London, W.C.1.

## The Queen's Hospital for Children,
Hackney-road, London, E.2. (160 Beds.)

RESIDENT MEDICAL OFFICER required on 1st January, 1939.

The appointment is made for six months, and may be extended for further periods of six months, but cannot be held for more than two years.

The Resident Medical Staff consists of the Resident Medical Officer as above, two Casualty Officers, two House Physicians, and two House Surgeons.

Salary (inclusive of panel fees) £200 per annum, with board, residence, and laundry. Candidates must have held a responsible resident appointment at a recognised hospital.

Forms of application may be obtained from the undersigned, and must be completed and returned on or before 6th December, 1938.

CHARLES H. BESSELL, Secretary.

14th November, 1938.

## The Queen's Hospital for Children,
Hackney-road, London, E.2. (160 Beds.)

HOUSE PHYSICIAN required 1st January, 1939.

Six months' appointment. Salary at the rate of £100 per year, with board, lodging, and laundry.

Applications must be made on forms to be obtained from the undersigned, and be sent in, with copies of not more than three testimonials, on or before 6th December, 1938.

CHARLES H. BESSELL, Secretary.

14th November, 1938.

## The Queen's Hospital for Children,
Hackney-road, E.2.

REFRACTION OFFICER required for one (morning) session weekly of approximately two and a half hours. Salary £1 16s. per session.

Applications, giving qualifications and details of experience, should be sent to the undersigned as soon as possible.

CHARLES H. BESSELL, Secretary.

14th November, 1938.

## London County Council.

Applications invited from registered Medical Practitioners of at least one year's standing, resident in the neighbourhood, for appointment as VISITING MEDICAL OFFICER (Part-time) at Princess Mary's Convalescent Home, Margate. Salary £200 a year.

Application form obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, S.E.1, returnable by 5th December.

Canvassing disqualifies.

## London County Council.

Applications invited from MEDICAL PRACTITIONERS of at least one year's standing to undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Grade I).—Salary £350–£25–£425, with board, lodging, and washing.

* (*a*) ARCHWAY HOSPITAL, Archway-road, Highgate, N.19. Medical duties, experience in anæsthetics desirable.

(*b*) ST. ALFEGE'S HOSPITAL, 48, Vanbrugh Hill, Greenwich, S.E.10. Surgical duties.

* (*c*) ST. MARY ABBOTS HOSPITAL, Marloes-road, Kensington, W.8. Surgical duties, fracture experience essential.

ASSISTANT MEDICAL OFFICERS (Grade II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(*d*) BETHNAL GREEN HOSPITAL, Cambridge-road, E.2. Medical duties, experience in diseases of children and tuberculosis desirable.

* (*e*) HACKNEY HOSPITAL, Homerton High-street, E.9. Medical duties, experience in anæsthetics desirable.

(*f*) LAMBETH HOSPITAL, Brook Drive, Kennington-road, S.E.11. Duties mainly medical, experience in obstetrics desirable.

(*g*) ST. GEORGE-IN-THE-EAST HOSPITAL, Raine-street, Wapping E.1. Medical duties, experience in anæsthetics desirable.

* No accommodation for a woman.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, S.E.1, returnable by 5th December.

Canvassing disqualifies.

## National Hospital,
Queen-square, W.C.1.

RESEARCH FELLOWSHIP.

By the generosity of a private donor a Full-time Research Fellowship has been created for the investigation of DISORDERS OF MUSCLE at the National Hospital, Queen-square, London, W.C.

The Fellowship will be open to Graduates in Science or Medicine and is of the value of £500 per annum, tenable for one year in the first instance.

Applicants should state their previous experience and the method of investigations they propose to adopt.

Further particulars may be obtained from the Secretary, National Hospital, Queen-square, W.C.1, and applications should reach him by January 15th, 1939.

## METROPOLITAN WATER BOARD

APPOINTMENT OF DIRECTOR OF WATER EXAMINATION.

The Metropolitan Water Board invite applications from those possessing wide experience in the chemical and bacteriological examination of water for the position of Director of Water Examination (to succeed the late Lt.-Col. C. H. H. Harold, O.B.E., M.D., Ch.B., D.P.H.) at an inclusive salary of £2000 per annum.

The Director will be required to give his whole time to the service of the Board; to superintend and be responsible to the Board for all examinations, analyses and experiments, and the reports thereon, concerned with the quality of the supply; and to undertake such research work and chemical analyses and investigations, whether of water or otherwise, as may from time to time be required of him. Laboratory and office accommodation, equipment and staff are provided. The appointment will be held during the pleasure of the Board, and the person appointed will be subject to the Standing Orders, regulations and rules in force from time to time.

The selected candidate will be required to pass a medical examination by the Chief Medical Officer and to undertake in writing to join the Superannuation and Provident Fund.

Applications should be made on the prescribed form, a copy of which may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope; and they should be addressed, in envelopes endorsed "Appointment of Director of Water Examination," to the Clerk of the Board so as to be received not later than 10 A.M. on Saturday, 31st December, 1938.

Canvassing will be held to be a disqualification.

R. P. MORGAN, Acting Clerk of the Board.

Offices of the Board, 173, Rosebery-avenue, E.C.1.

14th November, 1938.

## Royal Masonic Hospital,
Ravenscourt-park, W.6.

A post of RESIDENT MEDICAL OFFICER (Male), preferably with M.R.C.P. qualification, will be vacant on 1st January, 1939. Salary at the rate of £300 per annum, with board, residence, and laundry. The appointment is for twelve months. Candidates must be registered, and must have held resident appointments in General Hospitals.

The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary Nursing Home treatment, &c.

Applications, stating full particulars, to be sent on or before Monday, 5th December, 1938, to the Honorary Secretaries, from whom further information may be obtained.

## National Temperance Hospital,
Hampstead-road, N.W.1.

Applications are invited for the following post:—

HOUSE SURGEON.

Salary £100 per annum, board, residence, and laundry allowance. The appointment is for a period of six months as from Dec. 1st. Preference will be given to those who have held resident posts.

Candidates must submit applications stating qualifications, age, &c., with copies of not more than three testimonials, by Monday, 28th instant, addressed to the Secretary.

## The Salvation Army, The Mothers'
HOSPITAL, Lower Clapton-road, Clapton, E.5.

Applications are invited for the appointment of a Woman VENEREAL DISEASES OFFICER to The Mothers' Hospital. Salary, 416 guineas per annum.

Details of the appointment may be obtained from The Secretary-Superintendent, to whom the application with details of previous experience, and three recent testimonials, should be sent by November 30th, 1938.

FRED HAMMOND, Secretary.

## The North Kensington Women's
Welfare Centre (Gynæcological and Birth Control Clinic), 12, Telford-road, Ladbroke-grove, W.10.

Applications are invited for duly qualified part-time Woman REGISTRAR (2 sessions per week) at the above clinic. Apply in writing with particulars of experience to the Superintendent.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

The post of CLINICAL PATHOLOGIST will be shortly vacant. Salary £750 per annum.

The appointment is whole time and non-resident. Facilities, within certain limits, will be given for private pathological practice.

The successful candidate will be required to take up his duties preferably on the 1st March, 1939.

Candidates must be registered Medical Practitioners with special experience in bacteriology and clinical pathology.

Applications, accompanied by not more than three testimonials, given specially for the purpose must be delivered to the undersigned not later than NOON on Monday, the 19th December, 1938.

Candidates must be prepared to appear before the Joint Committee on Wednesday, 21st December, 1938, at 4.45 P.M.

Forms of application, and details of the appointment are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

There are vacancies for the following :—

A RESIDENT SURGICAL OFFICER. Duties to commence on the 1st January, 1939. Salary £200 per annum.

This appointment is tenable in the first instance for one year, but may be extended for a period of one further year.

Two RESIDENT HOUSE PHYSICIANS and One RESIDENT HOUSE SURGEON. Duties to commence on the 1st January, 1939. Salaries at the rate of £50 per annum.

These appointments are tenable for six months.

A RESIDENT ANÆSTHETIC REGISTRAR. Duties to commence on the 1st January, 1939. Salary at the rate of £100 per annum.

This appointment is tenable in the first instance for six months, but may be extended for a further period of six months.

A RESIDENT MEDICAL OFFICER at the COUNTRY BRANCH HOSPITAL, TADWORTH-COURT, TADWORTH, SURREY. Duties to commence on the 1st January, 1939. Salary at the rate of £250 per annum.

This appointment is tenable for six months, but is renewable.

Candidates for the above appointments must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by noon on Monday, the 28th November, 1938, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 7th December, 1938.

Full particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

## London Hospital, E.1.

There is a vacancy for the post of FIRST ASSISTANT AND REGISTRAR to the Neurosurgical Department.

Candidates must possess the F.R.C.S. Eng. qualification.

Applications should be sent to the House Governor, from whom further particulars may be obtained, and should arrive not later than on Saturday, December 3rd.

ARTHUR G. ELLIOTT, House Governor.

31st October, 1938.

## London Hospital, E.1.

CARDIAC DEPARTMENT.

The post of PATERSON RESEARCH SCHOLAR and CHIEF ASSISTANT in this Department will be vacant on 1st January, 1939.

The salary is at the rate of £400 per annum.

Applications should arrive at the Hospital not later than Saturday, the 10th December.

Further particulars on request.

ARTHUR G. ELLIOTT, House Governor.

## Hospital for Tropical Diseases.

RESIDENT MEDICAL SUPERINTENDENT.

The Committee of Management of the Seamen's Hospital Society invite applications for this post falling vacant on 1st January, 1939. The appointment will be tenable for two years. Minimum commencing salary £250 per annum, with board, residence, and laundry. Candidates must be Male, single, and legally qualified and registered. Membership of the Royal College of Physicians and some knowledge of tropical medicine is desirable, but not essential.

Applications, stating age, with copies of not more than three recent testimonials, to be sent on or before 7th December, 1938, to

D. A. C. PRICE, Secretary, Hospital for Tropical Diseases.

25, Gordon-street, W.C.1.

## City of London Maternity Hospital,
City-road, E.C.1.

Applications are invited for the post of Male ASSISTANT RESIDENT MEDICAL OFFICER, vacant January 1st next, salary £80 per annum. Three months' appointment. At the end of the period the candidate will, if satisfactory, be appointed Senior for three months at £100 per annum.

Forms of application, returnable not later than December 2nd, may be obtained from the undersigned.

RALPH B. CANNINGS, Secretary.

## Charing Cross Hospital, W.C.2.

REGISTRAR.

Applications are invited for the post of Registrar (Male) to the NOSE, THROAT, AND EAR DEPARTMENT.

Candidates must be registered Medical Practitioners and have some experience of the speciality.

Attendance four half-days per week. Appointment tenable for one year; eligible for re-election. Honorarium £100 per annum.

Applications in writing, stating age, qualifications, and experience, should be made to the undersigned not later than first post Monday, 28th November, 1938.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, Strand, W.C.2.

## The Royal Waterloo Hospital for
CHILDREN and WOMEN, Waterloo-road, S.E.1.

There will be a vacancy on the 1st December, 1938, for a HOUSE SURGEON (Male) at the above Hospital. The appointment is in the first instance for a period of six months. Salary at the rate of £100 per annum, with board and residence.

Applications, with copies of testimonials, should be forwarded not later than Tuesday morning, 22nd November, to the Secretary at the above address, from whom further particulars can be obtained.

## The London Chest Hospital,
Victoria Park, E.2.
(Bus, Tram and Rail, Cambridge Heath, L. and N.E. Railway.)

Applications (with copies of three testimonials) are invited to be sent to the Secretary, on or before Wednesday, 30th November, 1938, for the following posts, subject to the rules and by-laws of the Hospital :—

RESIDENT MEDICAL OFFICER (Male) for one year from 1st January, 1939. Salary £350 per annum.

HOUSE PHYSICIAN (Male) for six months from 1st January, 1939. Salary at the rate of £100 per annum.

HOUSE SURGEON (Male) for six months from 1st January, 1939. Salary at the rate of £100 per annum.

Board, residence, and laundry provided.

## The London Chest Hospital,
Victoria Park, E.2.
(Bus, Tram and Railway, Cambridge Heath, L. & N.E.Rly.)

SURGICAL REGISTRAR (Male) (Part-time).

Applications are invited for the above post. Four sessions a week, Tuesday and Friday mornings essential. Appointment is for one year and an honorarium is attached to the post.

Applications, with copies of three testimonials, should be sent to the undersigned on or before Tuesday, December 13th, 1938.

THOMAS BROWN, Secretary.

## Charing Cross Hospital, W.C.2.

The Council invite applications for the post of CLINICAL ASSISTANT (Male) to the DERMATOLOGICAL DEPARTMENT.

Candidates should send in their applications, together with copies of three testimonials, to the undersigned not later than first post Monday, November 28th, 1938.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, Strand, W.C.2.

## King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN.

Applications with copies of three testimonials, should be sent before December 10th to the House Governor, King's College Hospital, Denmark-hill, S.E.5, from whom particulars of the duties may be obtained.

Candidates must be Members or Fellows of the Royal College of Physicians of London.

## St. Marylebone Borough Council.

APPOINTMENT OF TUBERCULOSIS OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified and registered Medical Practitioners for the whole-time appointment of Tuberculosis Officer and Assistant Medical Officer of Health at a salary of £800 per annum, rising, on approved service, by annual increments of £25 to £1000 per annum.

Candidates should not exceed 40 years of age.

Form of application and further particulars and conditions of appointment can be obtained from the Medical Officer of Health, Town Hall, St. Marylebone, W.1.

Applications on the official form must be addressed to "The Town Clerk, Town Hall, St. Marylebone, W.1," and delivered in sealed envelopes marked "Tuberculosis Officer" not later than 10th December, 1938.

The appointment will be subject to satisfactory medical examination and production of birth certificate.

The Council's Bye-laws provide that canvassing shall disqualify an applicant.

## Dreadnought Hospital,
Greenwich, S.E.10. (Seamen's Hospital Society.)

One HOUSE PHYSICIAN and one HOUSE SURGEON required for six months from the 1st January, 1939. Salary £110 per annum and a proportion of fees with board, residence, and laundry. Candidates must be male and single.

Applications, with copies of three testimonials, to be sent in on or before 1st December, to the undersigned.

F. A. LYON, Secretary.

11th November, 1938.

## University of London.

The Senate invite applications for the University READERSHIP IN MEDICINE tenable at the British Postgraduate Medical School. Initial salary £800 a year.

Applications (12 copies) must be received not later than first post on 14th December, 1938, by the Academic Registrar, University of London, Senate House, W.C.1., from whom further particulars should be obtained.

## University of London.

The Senate invite applications for the University CHAIR OF MEDICINE tenable at University College Hospital Medical School. Salary £2000 a year.

Applications (12 copies) must be received not later than first post on 16th January, 1939, by the Academic Registrar, University of London, Senate House, W.C.1, from whom further particulars should be obtained.

## Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the posts of Two OUT-PATIENT OFFICERS, one to attend on Mondays and Thursdays, and one to attend on Wednesdays and Saturdays (mornings) each week.

Candidates must be registered Medical Practitioners.

Salary at the rate of £100 per annum. The Out-patient Officers will be appointed for a period of one year and will be eligible for reappointment.

Copies of regulations can be obtained on application.

Applications, with testimonials, stating age and qualifications, together with photograph, must be received by the undersigned not later than 3rd December, 1938.

A. J. M. TARRANT, Secretary.

## University College Hospital,
Gower-street, London, W.C.1.

Applications are invited for the whole-time post of FIRST ASSISTANT in the CHILDREN'S DEPARTMENT of University College Hospital.

The appointment will be as from 1st January, 1939, or as soon as possible thereafter, and will be tenable for a period of one year subject to re-appointment for a further period of two years.

Commencing salary £250 per annum.

Applications, with copies of three testimonials to be made not later than Friday, 2nd December, 1938, and to be addressed to the Secretary, University College Hospital Medical School, University-street, W.C.1, from whom copies of the conditions governing the appointment can be obtained.

## Royal Chest Hospital,
City-road, E.C.1.

Applications are invited for the post of RESIDENT MEDICAL REGISTRAR (Male). Candidates must be registered Medical Practitioners of at least 2 years' standing and have held at least two previous house appointments.

The appointment is for 14 months from January 1st, 1939. Particulars concerning remuneration and emoluments (amounting to approximately £286 with board and residence), together with necessary forms of application and rules can be obtained from the undersigned.

Applications with copies of testimonials, should be sent by December 2nd to

GILBERT G. PANTER, Secretary.

## The Elizabeth Garrett Anderson
HOSPITAL, Euston-road, N.W.1.

The Managing Committee invite applications from fully qualified Medical Women for the appointment of part-time ASSISTANT RADIOLOGIST with charge of the X ray therapy. Duties to begin 1st January, 1939. Honorarium £100 per annum.

Candidates are requested to apply to the undersigned for particulars of the post and to forward before Friday, 2nd December, 1938, twelve copies of application with copies of three recent testimonials for the Managing Committee.

It is also necessary to send a copy of application to each member of the Honorary Medical Staff (twenty-three).

JEAN R. MURRAY, Secretary.

## The Elizabeth Garrett Anderson
HOSPITAL, Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the part-time post of SURGICAL REGISTRAR, non-resident, honorarium £100 per annum. Duties to commence 1st January, 1939.

Particulars of the post can be obtained from the undersigned to whom applications, with copies of three recent testimonials, should be sent before 2nd December, 1938.

JEAN R. MURRAY, Secretary.

## The Elizabeth Garrett Anderson
HOSPITAL, Euston-road, N.W.1.

The Managing Committee invite applications from fully qualified Medical Women for the appointment of HONORARY ASSISTANT GYNÆCOLOGIST.

Applicants must be Fellows of the Royal College of Surgeons and Members of the College of Obstetricians and Gynæcologists. Duties to begin 1st January, 1939.

Candidates are requested to apply to the undersigned for particulars of the post and to forward before Friday, 2nd December, 1938, twelve copies of application, with copies of three recent testimonials for the Managing Committee.

It is also necessary to send a copy of application to each member of the Honorary Medical Staff (twenty-three).

JEAN R. MURRAY, Secretary.

## The Elizabeth Garrett Anderson
HOSPITAL, Euston-road, N.W.1.

The Managing Committee invite applications from fully qualified Medical Women for the appointment of HONORARY PHYSICIAN to take charge of the ELECTRO-THERAPY and MASSAGE DEPARTMENTS. Duties to begin 1st January, 1939.

Candidates are requested to apply to the undersigned for particulars of the post and to forward before Friday, 2nd December, 1938, twelve copies of application with copies of three recent testimonials for the Managing Committee.

It is also necessary to send a copy of application to each member of the Honorary Medical Staff (twenty-three).

JEAN R. MURRAY, Secretary.

## Queen Mary's Hospital for the East
END, Stratford, London, E.15.

Applications are invited from fully qualified and registered Medical Men (only) for the following posts :—

| | Salary (per annum) | Period (months) |
|---|---|---|
| One HOUSE SURGEON | £120 | Six |
| One HOUSE PHYSICIAN | £120 | Six |
| One HOUSE PHYSICIAN | £120 | Three |
| One OBSTETRIC HOUSE SURGEON | — | Six |
| One OUT-PATIENT OFFICER | £150 | Six |

The appointment will date from the 1st of January, 1939, and will be for six months, except in the case of one House Physician, which will be for three months. In the case of the Obstetric House Surgeon, above referred to, the appointment will be for three months as Junior at £110 per annum and for three months as Senior at £130 per annum, six months in all.

The Hospital contains 219 Beds, including 50 for Maternity.

Candidates, who must be single, should send applications, accompanied by copies of testimonials, to the undersigned not later than Wednesday, the 30th of November, 1938.

RAPHAEL JACKSON, Major, Secretary.

**Applications are invited for the appointment of HONORARY PHYSICIAN to THE BRITISH HOSPITAL for FUNCTIONAL MENTAL AND NERVOUS DISORDERS, 72, Camden-road, N.W.1. Candidates must hold the Diploma in Psychological Medicine and address their applications to the undersigned.**

DENIS G. WILLIAMS, Secretary.

## Worcester Royal Infirmary.

Applications are invited for the post of
CASUALTY OFFICER

Salary at the rate of £140 per annum, including board, residence, and laundry.

Applications, stating full particulars as to age, whether married or single, qualifications, &c., and accompanied by copies of three recent testimonials, should be sent to the undersigned by the 26th November, 1938.

H. J. CLOUT, Secretary.

## Middlesex County Council.

(1) WEST MIDDLESEX COUNTY HOSPITAL, Twickenham-road, ISLEWORTH, MIDDLESEX.

Non-resident ASSISTANT RADIOLOGIST, registered Medical Practitioner holding D.M.R.E., experienced in diagnostic and therapeutic X-ray work. Inclusive salary £650–£25–£800 per annum, on pensionable staff, subject to medical examination and three-months' notice. Whole-time duties under direction of Medical Superintendent and Radiologist. Any fees received payable to County Council. Closing date 3rd December, 1938.

(2) REDHILL COUNTY HOSPITAL, EDGWARE, MIDDLESEX.

Resident JUNIOR ASSISTANT MEDICAL OFFICER, registered Medical Practitioner, with previous resident general hospital service. Duties mainly obstetrical and gynæcological, qualifying appointment for M.C.O.G., and D.C.O.G. Salary £250 per annum, with board, lodging, and laundry valued at £100 per annum. Whole-time appointment subject to medical examination, is primarily for six months, with possibility of six months extension, when contributions to superannuation fund may be required. Closing date 26th November, 1938.

Written application to the undersigned in envelopes endorsed in top left-hand corner "B.3." and "W.Mdx.—Asst. Rad." or "Redhill—Jnr. A.M.O." enclosing copies of not more than three recent testimonials.

Canvassing, direct or indirect, disqualifies.

C. W. RADCLIFFE, Clerk of the County Council.

Guildhall, Westminster, S.W.1.

## Hill End Hospital and Clinic for the
PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS,
ST. ALBANS, HERTS.

HOUSE PHYSICIAN (Male) required, age under thirty years. Appointment for six months at the rate of £165 per annum, with board and quarters, renewable for a further six months at the rate of £200 per annum.

The Hospital has over 1000 beds, and is the County Mental Hospital for Hertfordshire. Laboratory, Psychological and Child Guidance Clinic, Occupational Therapy, &c.

Application forms from the Medical Director, to be returned with copies of recent testimonials.

Duties to commence as soon as possible.

## Chesterfield and North Derbyshire
ROYAL HOSPITAL, CHESTERFIELD.
(220 Surgical and Medical Beds.)

HOUSE SURGEON TO OPHTHALMIC AND EAR, NOSE, AND THROAT DEPARTMENTS.

Applications are invited from fully qualified men for the above post, to commence 1st December, 1938.

The appointment is for six months.

Salary at the rate of £150 per annum, with board, apartments, and laundry.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as soon as possible.

M. H. BOONE, Superintendent and Secretary.

7th November, 1938.

## Chesterfield and North Derbyshire
ROYAL HOSPITAL, CHESTERFIELD.
(220 Surgical and Medical Beds.)

HOUSE SURGEON.

Applications are invited from fully qualified men for the above post, to commence 1st December, 1938.

The appointment is for six months.

Salary at the rate of £150 per annum, with board, apartments, and laundry.

Applications, stating age and nationality, together with copies of three recent testimonials, should be sent to the undersigned as soon as possible.

M. H. BOONE, Superintendent and Secretary.

7th November, 1938.

## Middlesbrough Education Committee.

APPOINTMENT OF SENIOR ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Men, who have had experience of School Medical work, for the post of Senior Assistant School Medical Officer in connexion with the Medical Inspection and Treatment of School Children, and such other duties as may be required by the Education Committee. The person appointed will be responsible to the School Medical Officer.

Commencing salary £700 per annum, rising by annual increments of £25 to £750 per annum, thence by two annual increments of £50 to a maximum salary of £850 per annum.

The successful candidate will be required to devote his whole time to the duties of the office. The appointment will be subject to two calendar months' notice on either side, such notice dating from the last day of any calendar month.

Applicants must have had experience in the work of the School Medical Service, and preference will be given to candidates who have had experience of Refraction work and who are recognised by the Board of Education in connection with certification under the Mental Deficiency and other Acts.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the successful candidate passing satisfactorily a medical examination.

Forms of application may be obtained from the Director of Education on receipt of a stamped, addressed foolscap envelope, and these should be returned to the Director of Education, Education Offices, Middlesbrough, not later than Saturday, 26th November, 1938.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Offices, Middlesbrough, 7th November, 1938.

## Royal Manchester Children's Hospital,
PENDLEBURY, Near MANCHESTER.
(232 Beds.)

RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Resident Medical Officer. Salary £150 per annum. The appointment is for a period of six months, commencing 1st January, 1939. Candidates must be unmarried and duly registered. Previous hospital experience essential.

Applications, stating age, and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Friday, 2nd December. Canvassing, directly or indirectly, may disqualify.

By Order,
H. HEARDMAN, Secretary.

## Royal Sussex County Hospital,
BRIGHTON. (Beds 272.)

Required at the end of December—
One HOUSE PHYSICIAN.
One HOUSE SURGEON.
One CASUALTY HOUSE SURGEON.

Salaries respectively £150, £150, and £120 per annum, with board, residence, and laundry.

Candidates must hold Medical and Surgical qualifications of the British Empire, and be duly registered under the Medical Acts.

They must be unmarried and when elected under thirty years of age.

Applications, with copies of recent testimonials, should be sent to the undersigned.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

## Royal Sussex County Hospital,
BRIGHTON.

Applications are invited for the offices of HONORARY MEDICAL REGISTRAR and HONORARY SURGICAL REGISTRAR, from Gentlemen who hold a Medical and Surgical qualification of the British Empire and who are duly registered under the Medical Acts.

The appointments will be for a term of three years, the successful candidates being eligible for re-election at the end of that period.

Applications must reach the undersigned at the Hospital before 12 NOON on the 26th November, 1938.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

## The Bolton Royal Infirmary.
(318 Beds, including two Auxiliary Hospitals.)

Applications are invited for the following posts :—

RESIDENT SURGICAL OFFICER (Gentleman).

Resident Staff comprises Assistant R.S.O., House Physician, and three House Surgeons. R.S.O. appointment is recognised by the Royal College of Surgeons of England for the Final Fellowship Examination.

Salary £250 per annum, with board, residence, attendance, and laundry.

ASSISTANT RESIDENT SURGICAL OFFICER (Gentleman).

The duties of the Assistant R.S.O. comprise responsibility for the whole of the Casualty and Orthopædic Departments and to deputise for the R.S.O. in his absence.

The post is recognised by the Royal College of Surgeons of England for the Final Fellowship Examination.

Salary £200 per annum, with board, residence, attendance, and laundry.

THREE HOUSE SURGEONS (Ladies or Gentlemen).

Salary £150 per annum, with board, residence, attendance, and laundry.

Applications for the posts, stating age, nationality and experience, together with copies of testimonials, should be forwarded to the undersigned not later than the first post Monday, November 21st.

Duty in each case will commence on the 1st January, 1939, with the exception of one house surgeon, who will be required to commence Dec. 6th.

H. CORLESS, Secretary.

## Nottingham City Hospital.

RESIDENT ASSISTANT SURGICAL OFFICER.

Applications are invited for the post of Male Resident Assistant Surgical Officer at the above Hospital.

The Hospital is a General Hospital of over 1000 Beds, with a considerable amount of acute work.

The appointment is tenable for six months in the first instance, at a salary of £250 per annum, with the usual emoluments, but may be renewed for a further period of six months, subject to satisfactory service.

The successful candidate will be responsible for Ear, Nose, and Throat, and General Surgical cases, under the supervision of the Visiting Consulting Surgeons.

Candidates must have held previous Hospital appointments and have had practical Surgical experience.

Application forms can be obtained from me and should be returned, together with three copies of recent testimonials, on or before 25th November, 1938.

Canvassing, directly or indirectly, is forbidden.

J. E. RICHARDS, Town Clerk.

Guildhall, Nottingham, 7th November, 1938.

## Hertford County Hospital.
(171 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male—Three Residents). Salary £200 per annum, with board, residence, and laundry. The appointment is for six months in the first instance.

Applications, with three recent testimonials, should be sent to the undersigned not later than Tuesday, 22nd November instant.

PERCY G. BROOKS, Secretary.

## Royal Cornwall Infirmary, Truro.
(84 Beds.)

HOUSE SURGEON (Male) required with experience of Anæsthetics to commence duties on the 1st December next. Salary £170 per annum, rooms, board, and washing.

Apply, with copies of three recent testimonials, to the Secretary, of whom further particulars may be obtained.

W. E. GRENFELL, Hon. Secretary.

Truro, November 8th, 1938.

## Caernarvonshire and Anglesey
INFIRMARY, BANGOR.
(General Hospital.)

JUNIOR HOUSE SURGEON wanted. Salary £120 per annum, with residence, board, and laundry. Duties to commence December 10th.

Applications, stating age, qualifications, and nationality, with two testimonials, should reach the Secretary by the 28th November.

Good opportunity for Medical and Surgical experience.

## The Jessop Hospital for Women,
SHEFFIELD.
(151 Beds.)

The Board of Management invite applications for posts of HOUSE SURGEONS (Male), unmarried, for a period of six months commencing 1st January, 1939.

Salary £100 per annum, together with board, residence, and laundry.

Applications, stating age, together with copies of testimonials, should be addressed to the undersigned immediately.

DAVID OSWALD, Superintendent and Secretary.

## The Jessop Hospital for Women,
SHEFFIELD.
Firth Auxiliary, Norton.

Applications are invited for the post of RESIDENT MEDICAL OFFICER, from Registered Medical Practitioners.

The appointment will be for six months commencing 1st January, 1939, subject to renewal for a further six months, with salary at the rate of £150 per annum, plus board, residence, and laundry.

Previous Obstetrical experience is desirable.

The Firth Auxiliary Hospital contains 47 beds, of which 23 are set apart for the treatment of Puerperal Sepsis, the remainder being for Ante-Natal and Gynæcological cases.

Applications should be lodged with the undersigned, addressed to the Jessop Hospital for Women, Sheffield, immediately.

DAVID OSWALD, Superintendent and Secretary.

## The Jessop Hospital for Women,
SHEFFIELD.
(151 Beds.)

The Board of Management invite applications for the post of SENIOR RESIDENT OFFICER (Male), unmarried.

The appointment is for six months, in the first instance, from 1st January, 1939.

Salary £150 per annum, plus board, residence, and laundry.

Previous resident experience essential.

The duties include charge of the Maternity Department, 36 beds, and general supervision of the Gynæcological Department.

Applications, stating age and experience, with copies of recent testimonials, should be forwarded immediately to the undersigned.

DAVID OSWALD, Superintendent and Secretary.

## The Incorporated Liverpool School of
TROPICAL MEDICINE (University of Liverpool).

Applications are invited for the post of ASSISTANT LECTURER and DEMONSTRATOR in the Department of Parasitology at the above School.

Candidates should be graduates of a British or Colonial University, and must hold a medical qualification or a good degree in zoology.

Initial salary £300–£400 (according to the selected candidate's qualifications).

Applications should be made not later than December 31st, 1938, to the Secretary, School of Tropical Medicine, Pembroke-place, Liverpool, 3, from whom further particulars may be obtained.

## Hull Corporation Health Department.

ANLABY ROAD INSTITUTION (HOSPITAL). 580 Beds.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from Registered Medical Practitioners, of either sex, under the age of 40 years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with an allowance at the rate of £150 per annum for board and residence outside the hospital.

The hospital is equipped with modern X ray and Radium Departments.

The appointment will be designated under the Local Government and Other Officers' Superannuation Act, 1922.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, 5th December, 1938.

NICOLAS GEBBIE, M.D., Medical Officer of Health.
Health Department, Guildhall, Hull.
November 14th, 1938.

## St. Mary's Hospitals, Whitworth Park,
MANCHESTER.

HONORARY ASSISTANT PHYSICIAN IN THE CHILDREN'S DEPARTMENT.

Applications are invited for the post of Honorary Assistant Physician in the Children's Department. Candidates should be Members or Fellows of the Royal College of Physicians.

Applications and three testimonials, together with Certificate of Registration, should be sent to the undersigned on or before 12th December, 1938.

Candidates should forward twenty copies of their application and testimonials to the undersigned, from whom particulars of duties may be obtained.

A. R. WISE, Superintendent and Secretary.

## The Prince of Wales's Hospital,
Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(254 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £225 per annum, with board, residence, and laundry.

Appointment is tenable for six months and subject to renewal. Duties to commence 20th December.

Candidates must be registered under the Medical Acts and it is desirable they should possess the F.R.C.S., England or Edinburgh.

Applications, stating age and qualifications, together with copies of three recent testimonials, to reach the undersigned by 30th November.

ARTHUR R. CASH, General Superintendent and Secretary.

## Alexandra Hospital for Children with
HIP DISEASE, SWANLEY, KENT.

(100 Beds for Children with Bone and Joint Tuberculosis and other Orthopædic Conditions.)

Applications are invited for the post of SECOND RESIDENT MEDICAL OFFICER at this Hospital which will become vacant in January next. Candidates for the appointment must be fully qualified and should preferably hold a higher surgical qualification, or be working for such higher qualification. The appointment is for six months, with eligibility for re-election. The salary will begin at the rate of £200 to £250 a year, according to qualifications and experience. Board and lodging are provided.

Applications, stating age and giving full particulars of qualifications and previous surgical experience, with copies of two testimonials, should be sent not later than 14th December to the undersigned at the London Offices, 107, Southampton-row, W.C.1, from whom further particulars of the duties and conditions of the appointment can be obtained.

STANLEY SMITH, Secretary.

November, 1938.

## County Mental Hospital, Lancaster.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Female). Candidates must be single and under thirty-five years of age. Commencing salary £550 per annum, rising to £600 after one year's satisfactory service, with further increases on promotion, subject to a deduction of 3 per cent. under the Asylums' Officers' Superannuation Act, 1909. There are no emoluments.

The selected candidate will be required to live in the Hospital, and she will be provided with board, lodging, &c., for which a charge of £150 a year is made.

The possession of a Diploma in Psychological Medicine will entitle the officer to an additional £50 per annum.

Applications, giving full particulars, with testimonials (copies only), should be forwarded to the Medical Superintendent on or before the 30th November, 1938.

## The Royal Infirmary, Sheffield.

The Board of Management invite applications for the post of OPHTHALMIC HOUSE SURGEON.

The salary attached to the post is £120 per annum, with board and residence.

The successful applicant will be expected to take up his duties on 1st January, 1939.

The Ophthalmic Department contains 69 Beds and an Out-Patient Department which is open daily.

Applications with copies of testimonials to be sent forthwith to the General Superintendent and Secretary.

11th November, 1938.

## Children's Hospital, Nottingham.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence on the 1st January, 1939.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's Chambers, Bridlesmith-gate, Nottingham, on or before Tuesday, the 29th November.

Selected candidates will be required to attend at the Hospital for a personal interview.

## The Dewsbury and District General
INFIRMARY.

HONORARY VISITING SURGEON.

Applications are invited for the above post. In accordance with the Rules of the Hospital the Surgeon appointed must be a Fellow of the Royal College of Surgeons of England, and must also be an Honorary Assistant Surgeon on the staff of a Teaching Hospital associated with a University.

Further information as to the duties attaching to the post may be obtained from the undersigned, to whom applications should be sent before 28th November, 1938.

FRED SMITH, Secretary-Superintendent.

# INDIAN MEDICAL SERVICE

## RECRUITMENT OF EUROPEAN OFFICERS

**Applications are invited from Medical Men for Permanent Commissions in His Majesty's Indian Medical Service. The terms offered include a gratuity of £1,000 on retirement after six years' service, or of £2,500 after 12 years' service, together with free return passages, for those who no longer desire to remain in the Service. In other respects the terms will be as detailed below.**

British subjects of pure European descent who are under 32 years of age who are registered under the Medical Acts in force in Great Britain and Northern Ireland are eligible to apply.

### CAREERS.

The Indian Medical Service offers a permanent career with wide opportunities of medical experience, including clinical, preventive, specialist, and research work. At the beginning of his career an officer is employed on the military side, which has medical charge of the Indian Army. Promotion is on a time scale up to the rank of Lieutenant-Colonel, and by selection to the ranks of Colonel and Major-General. An officer may apply after one year's Indian Service to have his name registered for transfer to the civil side, from which appointments are made to Civil Surgeoncies, which are established at the principal civil centres to provide for the medical needs of Civil Officials and for general medical administrative purposes; to specialist (for example, public health and bacteriological) services; to research posts; and to professorships at the Medical Schools.

### RATES OF PAY.

| Years of Service. | Rank. | Basic Pay. Rs. per mensem. | Overseas Pay. £ per month. | Total. £ per annum. |
|---|---|---|---|---|
| 1 | Lieutenant. | 450 | 15 | 585 |
| 2 | Captain. | 500 | 25 | 750 |
| 3 | " | 550 | 25 | 795 |
| 4 | " | 550 | 25 | 795 |
| 5 | " | 600 | 25 | 840 |
| 6 | " | 600 | 30 | 900 |
| 7 | " | 700 | 30 | 990 |
| 8 | " | 700 | 30 | 990 |
| 9 | " | 700 | 35 | 1050 |
| 10 | " | 700 | 35 | 1050 |
| 11 | Major. | 800 | 35 | 1140 |
| 12 | " | 800 | 40 | 1200 |
| 13 | " | 800 | 40 | 1200 |
| 14 | " | 800 | 40 | 1200 |
| 15 | " | 800 | 40 | 1200 |
| 16 | " | 950 | 40 | 1335 |
| 17 | " | 950 | 40 | 1335 |
| 18 | " | 950 | 40 | 1335 |
| 19 | " | 1100 | 40 | 1470 |
| 20 | " | 1100 | 40 | 1470 |
| 21 | Lieut.-Col. | 1350 | 40 | 1695 |
| 22 | " | 1350 | 40 | 1695 |
| 23 | " | 1350 | 40 | 1695 |
| 24 | " | 1500 | 40 | 1830 |
| 25 | " | 1500 | 40 | 1830 |

*Note.*—(1) The rupee is at present stabilized at a rate equivalent to 1*s.* 6*d.*

(2) An officer promoted to the rank of Lieut.-Colonel before completion of 20 years' service will receive pay at the rate of Rs. 1200 per mensem (basic) plus £40 per month overseas pay.

*Extras.*—In addition to the above rates various allowances are admissible for a large number of special appointments on both the military and the civil side which may be held by members of the Indian Medical Service. Special high rates of pay are also attached to the numerous administrative appointments open to officers in both branches of the Service.

### ANTEDATES IN COMMISSION.

Candidates possessing certain higher medical qualifications or holding the Diploma in Public Health may be granted an antedate in their commissions. Past service in certain hospital appointments may also render candidates eligible for an antedate. Persons holding or about to hold resident posts at recognized hospitals may be seconded in those posts for a period. The maximum period of antedate, secondment, or antedate and secondment combined, admissible under this paragraph, is limited to 18 months.

### OUTFIT ALLOWANCE.

Officers on appointment will receive an allowance of £75 towards the cost of outfit.

### PRIVATE PRACTICE.

With the exception of Administrative Officers, military or civil, and officers holding certain special appointments, officers are not debarred from taking private practice, so long as it does not interfere with their proper duties.

### LEAVE.

Leave can be taken at reasonable intervals, and adequate rates of leave pay are provided. Extra leave (known as study leave), which may not exceed twelve months in all during an officer's service, may be granted to officers desirous of pursuing special courses of study of a post-graduate nature. During such leave, study allowance, at present fixed at the rate of 12*s.* a day in the United Kingdom, £1 a day on the Continent of Europe, and £1 10*s.* a day in the United States of America and Canada, is granted to an officer in addition to ordinary rates of leave pay.

### PENSIONS.

The rates of pensions are as follows :—

| | Per annum. £ | s. |
|---|---|---|
| After 17 years' service for pension .. .. | 372 | 0 |
| " 18 " " " .. .. | 400 | 0 |
| " 19 " " " .. .. | 428 | 0 |
| " 20 " " " .. .. | 465 | 0 |
| " 21 " " " .. .. | 502 | 0 |
| " 22 " " " .. .. | 539 | 10 |
| " 23 " " " .. .. | 576 | 10 |
| " 24 " " " .. .. | 614 | 0 |
| " 25 " " " .. .. | 651 | 0 |
| " 26 " " " .. .. | 697 | 10 |
| " 27 " " " .. .. | 744 | 0 |

There are additional pensions ranging from £65 to £350 per annum for officers who have held administrative appointments.

### PASSAGES.

An officer on appointment is provided with free passage to India. The families of officers who are married prior to the date of the officers' embarkation on first appointment will also be provided with free passage to India, subject to the payment of messing charges. Officers and their families are also eligible for passage concessions under which they are granted a certain number of return passages home at Government expense during their service.

### INSTRUCTION PRIOR TO EMBARKATION.

Officers are required to undergo courses of instruction at the Royal Army Medical College and at Aldershot, lasting approximately three months, prior to their embarkation for India on first appointment. Information as to the rates of pay admissible during this period and subsequently up to arrival in India is contained in the memorandum referred to below.

**A memorandum giving full details regarding these appointments and forms of application may be obtained from the UNDER-SECRETARY OF STATE FOR INDIA, MILITARY DEPARTMENT, INDIA OFFICE, LONDON, S.W.1. The Selection Committee will meet at the India Office on 6th December, 1938, and the selected candidates, unless seconded for hospital appointments, will be required to join a course of instruction commencing on 1st January, 1939, prior to sailing for India in April, 1939. Applications should reach the India Office as soon as possible.**

INDIA OFFICE, November, 1938.

## North Staffordshire Royal Infirmary,
STOKE-ON-TRENT. (390 Beds.)

RESIDENT ANÆSTHETIST.

The Committee invite applications for the above post.

Salary at the rate of £150 per annum, with board, residence, and laundry.

This appointment, which is recognised by the Royal College of Surgeons for the Diploma in Anæsthetics, will be made for six months, renewable.

Previous hospital Anæsthetic experience essential.

Applications, stating age and experience, with copies of two recent testimonials, to be sent to the undersigned immediately.

By Order,
W. STEVENSON, Secretary and House Governor.
15th November, 1938.

## Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

KINGSTON COUNTY HOSPITAL. (568 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment, which will be vacant in January, 1939, of Resident Assistant Medical Officer at the Kingston County Hospital.

The Medical Officer appointed must have had post-graduate hospital experience in the administration of anæsthetics as his duties will be largely those of Anæsthetist.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-upon-Thames, so as to be received not later than 3rd December, 1938.

DUDLEY AUKLAND, Clerk of the Council.
County Hall, Kingston-upon-Thames, 14th November, 1938.

## County Borough of Southend-on-Sea.

SOUTHEND MUNICIPAL HOSPITAL.

The Health Committee of the Town Council invite applications for the following appointments at their Municipal Hospital situate at Rochford, Essex. The Hospital at present comprises 460 beds, but considerable extensions are in course of erection. There is a staff of Visiting Consultants and the Hospital is a recognised Training School for Nurses.

(*a*) DEPUTY MEDICAL SUPERINTENDENT (RESIDENT)—Commencing salary £500 per annum, rising by annual increments of £25 to a maximum of £600 per annum, together with full residential emoluments valued for superannuation purposes at £150 per annum. Candidates must hold a higher University Degree in Medicine or be a Member of the Royal College of Physicians, and must have had considerable general hospital experience, including administration.

(*b*) SURGICAL OFFICER (NON-RESIDENT)—Commencing salary £500 per annum rising by annual increments of £25 to a maximum of £600 per annum, with a non-resident allowance of £150 per annum. Candidates must be Fellows of the Royal College of Surgeons and must have had considerable experience in emergency surgery and the treatment of fractures.

Both appointments are designated posts under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidates will be required to pass a medical examination.

Forms of application, together with further particulars of the appointments, may be obtained from the Medical Officer of Health, Municipal Health Centre, Warrior-square, Southend-on-Sea, and applications should be received by him not later than Monday, 5th December, 1938.

H. J. WORWOOD, Town Clerk.
15th November, 1938.

## Resident Surgical Officer (Junior)
required on 1st January, 1939, for the PRINCESS MARGARET ROSE HOSPITAL FOR CRIPPLED CHILDREN EDINBURGH (125 Beds); preference given to candidates with orthopædic experience. Initial salary at rate of £50 per annum, with board.

Apply before 1st December with six copies of not more than four testimonials to R. W. MARTIN, W.S., Secretary, 11, Coates-crescent, Edinburgh.

## The Royal Liverpool Children's
HOSPITAL.

APPOINTMENT OF HONORARY PHYSICIAN.

The Council invites applications for the position of Honorary Physician to the Hospital, shortly to become vacant.

Applications (with copies of testimonials) must be in writing, and addressed to the Chairman, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, by Thursday, 1st December, 1938.

A candidate may send copies of his application and testimonials to members of the Election Committee, but personal canvassing of any member will be a disqualification.

A. DORIS EILLS, Chairman.

## Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of RESIDENT ANÆSTHETIST AND EMERGENCY OFFICER (Male). The appointment will be for three months from January 1st, 1939. Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates, who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four recent testimonials, to the undersigned on, or before, Wednesday, November 30th, 1938.

J. A. BEARDSALL, Secretary-Superintendent.

## County Council of Durham.

DISTRICT TUBERCULOSIS MEDICAL OFFICER.

The County Health Committee invite applications for a District Tuberculosis Medical Officer, at a commencing salary of £600 per annum, rising by annual increments of £25 to £700 per annum. Travelling allowance will be paid by the County Council in accordance with a scale to be approved from time to time.

The appointment will be held subject to three calendar months' notice on either side, and to the following conditions :—

(1) The officer appointed must be a registered Medical Practitioner under the age of 50 years, must devote the whole of his time to the duties of the office, and must not engage in private practice.

(2) He should have held a previous appointment as Tuberculosis Medical Officer, with the approval of the Minister of Health, or
  - (i) have had at least three years' experience in the practice of his profession ;
  - (ii) have spent in general clinical work a period of not less than eighteen months, of which not less than six months have been spent in a hospital as Resident Medical Officer in charge of beds occupied by general medical or surgical cases ; and
  - (iii) have received special training for a period of not less than six months in the diagnosis and treatment of tuberculosis.

(3) He will be attached to the County Health Department and will, subject to the direction of the County Medical Officer, be under the control of the Central Tuberculosis Medical Officer.

(4) He will be required to reside in his Dispensary area, or such other area as required by the Council.

(5) He must be prepared, if called upon, to act as locum tenens to other members of the medical staff of the County Medical Officer.

(6) The holding of a Diploma in Public Health will be deemed an additional qualification for the post.

The candidate appointed will be required to pass the County Council's medical examination and will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Applications, endorsed "District Tuberculosis Medical Officer," and accompanied by copies of not more than three recent testimonials, must be addressed to the County Medical Officer, Shire Hall, Durham, and must be received by him not later than first post on Monday, 5th December, 1938.

J. K. HOPE, Clerk of the County Council.
Shire Hall, Durham, 14th November, 1938.

## City of Birmingham Education
COMMITTEE

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Required, to begin duty as soon as possible, an Assistant School Medical Officer (Male or Female). Candidates must have had at least three years' experience in the practice of their profession subsequent to obtaining a registrable qualification. Salary according to "Askwith" Scale (£500 to £700 by annual increments of £25). In fixing commencing salary previous service in Class II of "Askwith" Scale may be taken into account. £10 per annum travelling expenses allowed.

Forms of application (to be returned not later than first post on Monday, 5th December), together with further information, obtainable from the undersigned on receipt of stamped, addressed foolscap envelope. Communications should be endorsed "Assistant School Medical Officer." Canvassing will disqualify.

P. D. INNES, Chief Education Officer.
Education Office, Margaret-street, Birmingham, 3.
14th November, 1938.

## The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)

HOUSE SURGEONS (General Surgery) 2.
HOUSE PHYSICIAN.

Applications are invited for the above resident posts which become vacant on 1st January next.

The Hospital contains 300 beds, includes the usual special departments and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must be registered under the Medical Acts, and unmarried.

The appointments are for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided.

Applications with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.
Wolverhampton, 14th November, 1938.

## Enfield War Memorial Hospital.

Applications are invited for the post of HONORARY CONSULTING ASSISTANT SURGEON to the above Hospital. A gentleman who has recently been deputising will be an applicant for the post.

Applicants must be Fellows of the Royal College of Surgeons (Eng.) engaged in Consulting Practice only.

Further details as to duties can be obtained upon application to the Secretary of the Hospital.

Applications, together with three recent testimonials, to be sent to the Secretary by the 30th November.

## County Borough of Halifax.

THE HALIFAX GENERAL HOSPITAL. (405 Beds.)

JUNIOR RESIDENT MEDICAL OFFICER. (Male.)

Applications are invited from duly qualified registered Medical Practitioners for the above appointment, for duties mainly in the surgical wards.

Salary £250 per annum, together with board, residence, and laundry. The appointment will be for a term not exceeding 12 months and is not renewable.

Forms of application and conditions of appointment can be obtained from the Medical Officer of Health, Powell-street, Halifax.

Completed applications, together with copies of not more than three recent testimonials, endorsed "Junior Resident Medical Officer" should be forwarded to the undersigned as early as possible.

Canvassing, either directly or indirectly, will be a disqualification.

The Council has not adopted a superannuation scheme.

PERCY SAUNDERS, Town Clerk.

Town Hall, Halifax, 15th November, 1938.

## The King Edward VII Welsh National MEMORIAL ASSOCIATION.

Applications are invited from duly registered Medical Practitioners (Male, single) for the post of ASSISTANT RESIDENT MEDICAL OFFICER (twelve months' appointment) at the NORTH WALES SANATORIUM (247 Beds for Female Pulmonary and Male, Female, and Children Non-pulmonary cases), DENBIGH, NORTH WALES.

Salary £200 per annum, plus maintenance.

Applications, stating age, qualifications, experience, &c., together with copies of three recent testimonials, should reach the undersigned not later than Wednesday, November 30th, 1938.

D. A. POWELL, Principal Medical Officer.

Memorial Offices, Westgate-street, Cardiff.

## Cornwall County Council.

COUNTY MEDICAL OFFICER.

Applications are invited for the appointment of County Medical Officer of Health. Candidates must be qualified, in accordance with the Local Government Act, 1933, and the Regulations thereunder, to carry out the statutory duties of the office, and such other duties as may be prescribed by the Minister of Health or the County Council.

Inclusive salary £1200 a year, with travelling allowance on the County Scale.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, should reach the undersigned by the 6th December, 1938.

T. A. H. SHEERS, Clerk of the County Council.

County Hall, Truro, 15th November, 1938.

## Pontefract General Infirmary (Yorks).

JUNIOR RESIDENT MEDICAL OFFICER (Male, unmarried), duly qualified registered Medical Practitioners. Commencing salary £150 per annum, with residence, board, and laundry.

The appointment to date for six months from January 1st, 1939.

Applications, stating age, with testimonials, and nationality to be sent to the undersigned at once.

DAVID J. RICHARDS, Secretary-Superintendent.

## The Bolton Royal Infirmary.

(318 Beds, including two Auxiliary Hospitals.)

ASSISTANT PATHOLOGIST.

Applications are invited from qualified Medical Men or Women for the above post. Post-graduate experience in the routine methods of a general hospital laboratory is essential.

The appointment is a whole-time one.

Salary £600 per annum.

Further information may be obtained from the undersigned, to whom applications, stating age, nationality, and experience, and enclosing two copies of recent testimonials, should be sent not later than November 28th, 1938.

H. CORLESS, Secretary.

## Royal Liverpool Babies' Hospital, WOOLTON, LIVERPOOL.

The Committee invite applications for the post of HONORARY PHYSICIAN.

Applications, with testimonials, to be sent to the Secretary of the Hospital, 9, Copperas-hill, Liverpool, 3, not later than Saturday, December 3rd.

## City of Birmingham.

ASSISTANT MEDICAL OFFICER OF HEALTH.

The Public Health and Maternity and Child Welfare Committee invite applications for the post of whole-time Assistant Medical Officer of Health for general, and mainly administrative public health duties. Candidates must be qualified Medical Practitioners and hold a Diploma in Public Health.

The successful candidate will be required to pass an approved medical examination, to contribute to the Superannuation Scheme, established under the Local Government and Other Officers' Superannuation Act, 1922, as amended by Section 82 of the Birmingham Corporation Act, 1935—Annuities for Widows—and, if under thirty years of age, to join the Birmingham Municipal Officers' Widows' and Orphans' Pensions Scheme.

The appointment will be terminable by one month's notice on either side. Salary £600 per annum, rising by £25 annually to £800.

Applications endorsed "Assistant Medical Officer of Health" and accompanied by copies of three recent testimonials, to be made on a form to be obtained from the Medical Officer of Health, The Council House, Birmingham, 3, and returned to him by Saturday, 26th November, 1938.

Canvassing will disqualify.

F. H. C. WILTSHIRE, Town Clerk.

## The Warneford Hospital for Mental DISORDERS, OXFORD.

ASSISTANT MEDICAL OFFICER required for the above Registered Hospital. Young Graduate with some General Hospital experience preferred. Opportunities for modern Psychiatric practice and ample time for reading or research in Psychiatry. Salary £350 a year, with board and laundry.

Applications, together with copies of not more than three testimonials, should be sent to the Physician Superintendent before 10th December, 1938.

## The Royal Portsmouth Hospital, PORTSMOUTH.

(Six Resident Medical Officers.)

Applications are invited for the post of SENIOR HOUSE SURGEON (Male). Salary at the rate of £175 per annum, with board, &c. Candidates must have held an appointment as House Surgeon at a General Hospital and had considerable experience, as the post is a very responsible one.

To commence 12th December, 1938. Six months' appointment and eligible, on completion of term, for extension.

Applications, stating age, nationality, and full details, with copies of three testimonials, to be sent to the undersigned not later than 30th November, 1938, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

## Boston General Hospital,

(70 Beds.)

RESIDENT MEDICAL OFFICER required to commence duty as soon as possible. Salary £150 per annum, with board, residence, and laundry. The appointment is for six months, and is renewable.

Applications, stating age, qualifications, and previous experience, together with copies of three recent testimonials, should be addressed to the undersigned.

GORDON EASTO, Secretary.

## Kent County Ophthalmic and Aural HOSPITAL, MAIDSTONE. (109 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male) to the Ear, Nose, and Throat Department, which post will be vacant on the 16th December. Candidates must be duly qualified and registered Medical Practitioners, single, and of British birth and nationality, and should have had some experience in the treatment of Diseases of the Ear, Nose, and Throat. The Hospital is recognised by the Examining Board for the D.L.O. The appointment is for six months, but a senior post at a higher salary may be given after that period if mutually agreed upon. Salary at the rate of £200 per annum, with board, residence, and laundry.

Applications, stating age, together with copies of not more than three testimonials, should be sent to the undersigned.

JOHN W. STRICKLAND, Secretary.

## St. Paul's Eye Hospital, Liverpool.

HOUSE SURGEON required 1st January, 1939.

Six months' appointment. Salary £145 per annum, with board, residence, &c.

Applications, with copies of testimonials, should be sent to the Secretary on or before 10th December.

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## Lincoln County Hospital.

Wanted, JUNIOR HOUSE SURGEON, Male, unmarried. Salary at the rate of £150 per annum, rising to £200 per annum at the conclusion of six months' approved service. Board, residence, and washing will also be provided.

Every candidate for the appointment must be registered under the Medical Acts.

Applications, stating age and other particulars, with copies of not more than three testimonials, are to be sent to the undersigned, from whom further particulars may be obtained.

ARTHUR MOORE, Secretary-Superintendent.

Lincoln, 11th November, 1938.

## Hull Corporation Health Department.

DEPUTY MEDICAL SUPERINTENDENT,
CITY HOSPITALS AND SANATORIUM.

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NICOLAS GEBBIE, M.D., Medical Officer of Health.

Health Department, Guildhall, Hull, November, 1938.

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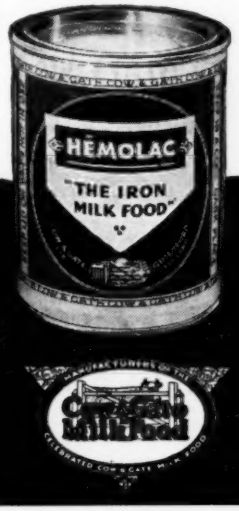


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*Assistant Physician and Demonstrator of Practical Medicine, St. Bartholomew's Hospital; Physician, Royal Chest Hospital; Consulting Physician, Royal National Sanatorium, Bournemouth*

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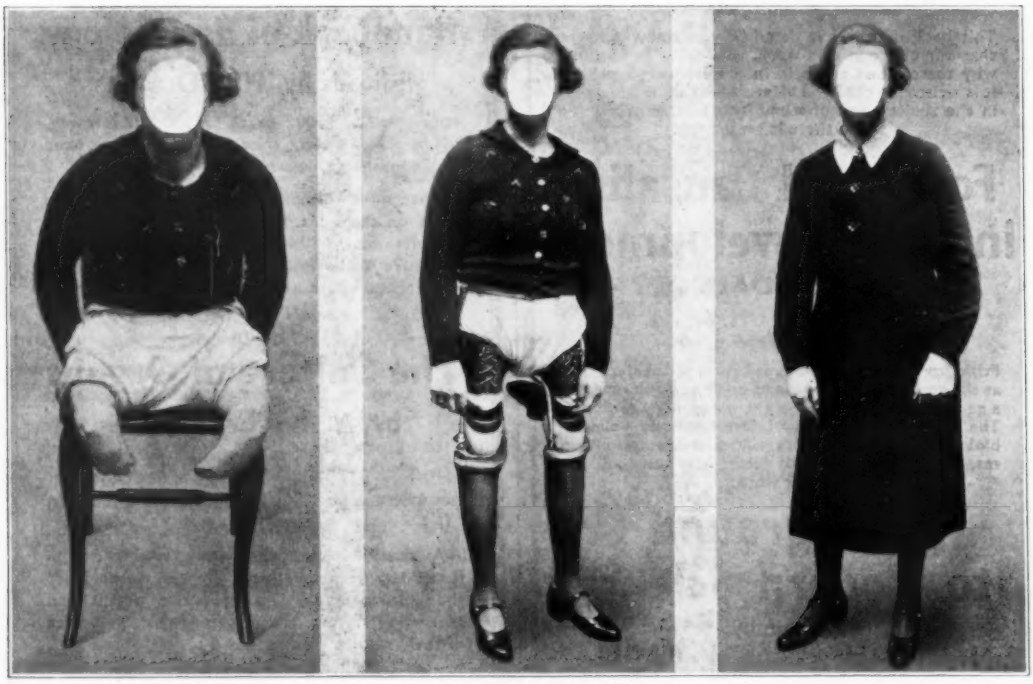

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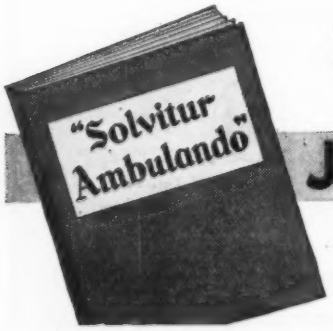


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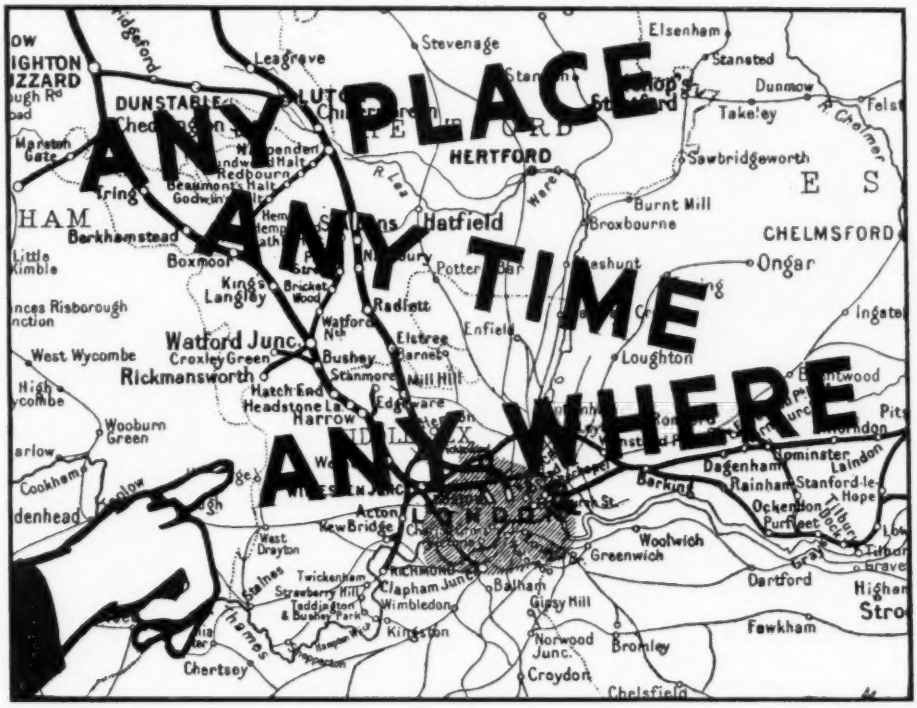


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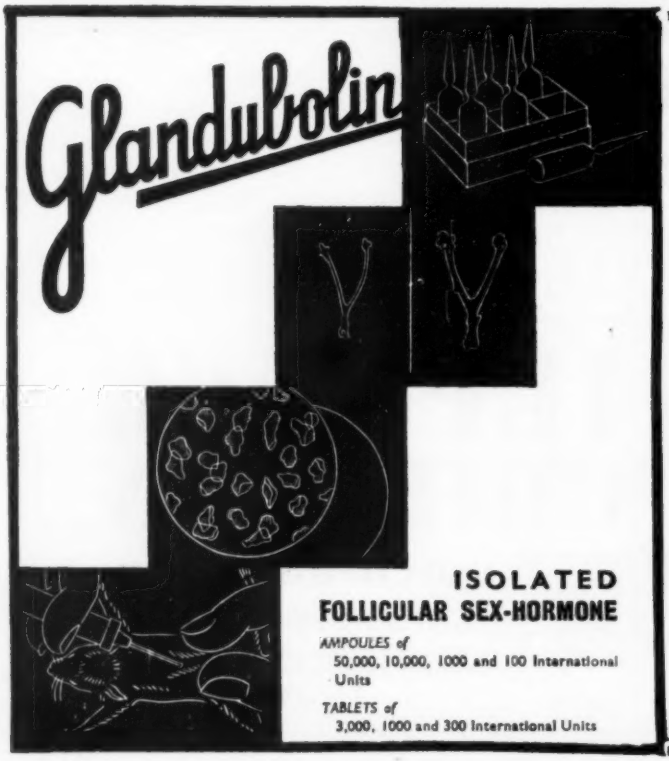

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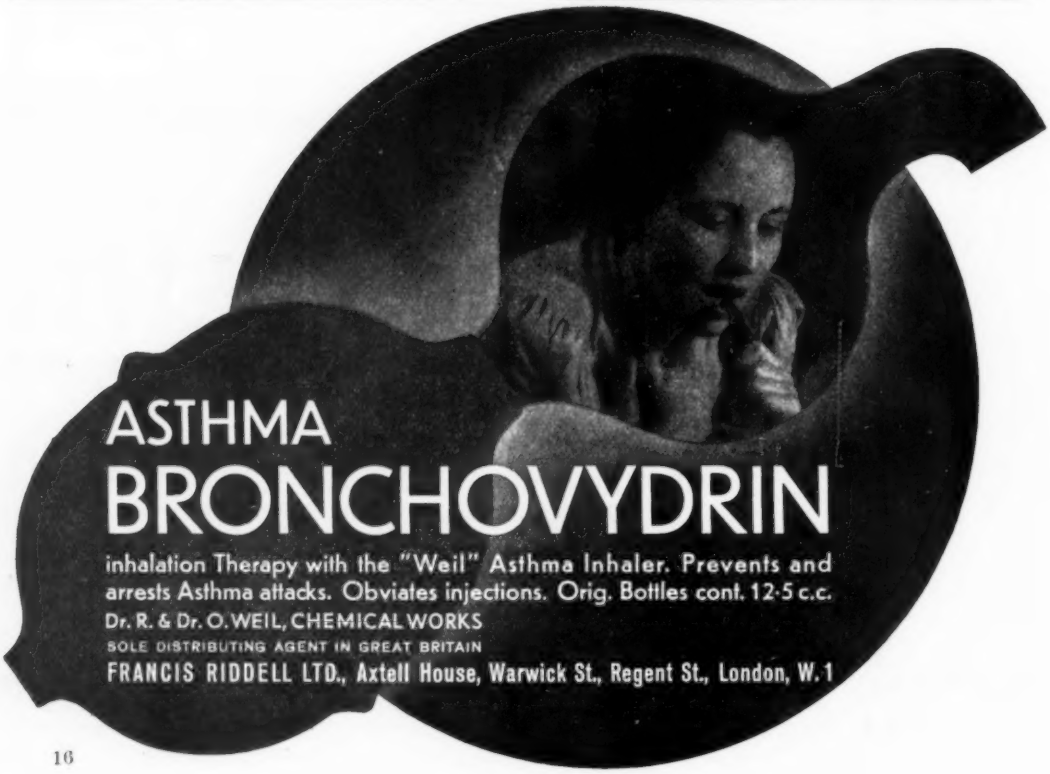

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# M&B 693

(DAGENAN)*

2-SULPHANILYL-AMINOPYRIDINE

*The latest May & Baker contribution to chemotherapy*

## in pneumococcal infections

Early clinical trials with M & B 693 convincingly demonstrated its value in **lobar pneumonia** (*The Lancet, July 2nd,* 1938). Later reports showed its activity in other pneumococcal infections including **pneumococcal meningitis** (*The Lancet, September 10th,* 1938 *and Sept. 24th,* 1938): and **pneumococcal septicæmia** (*The Lancet, September 10th,* 1938).

## in other conditions

Although primarily important for its anti-pneumococcal activity, M & B 693 also appears to exert a valuable therapeutic effect in **streptococcal and meningococcal infections** (*The Lancet, May 28th,* 1938), **staphylococcal infections** (*The Lancet, Sept. 17th,* 1938) and **gonococcal infections** (*The Lancet, June 4th,* 1938, *and August 13th,* 1938, *and B.M.J., September 10th,* 1938).

**M & B 693**
is available in the following packs:
Containers of 25 tablets - - - 7/6
Containers of 100 tablets - - - 28/-
*Subject to professional discount.*

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# "HEPATAGEN"

**COMPOSITION—Ext. Cascaræ, Ext. Rhei, Jalapin, Podophyllin, Cocaine Hydrochlor., 1-20th gr. in each fluid drachm.**

*This preparation does not come under the Dangerous Drugs Act.*

A POPULAR remedy for Chronic Biliousness, Catarrhal Jaundice and the Jaundice of simple Hepatic Torpor. **In passive or habitual Congestion of the Liver it has been used with marked benefit.**

**In the treatment of acute or temporary constipation** in convalescents and in pregnancy, or in the constipation due to sedentary habits, to a deficiency of intestinal secretion and of peristalsis, the mixture can be prescribed with wonderful effect.

The dose is from 10 to 60 minims, according to the age and condition of the patient. One drachm is a direct aperient and is not accompanied by griping or tenesmus.

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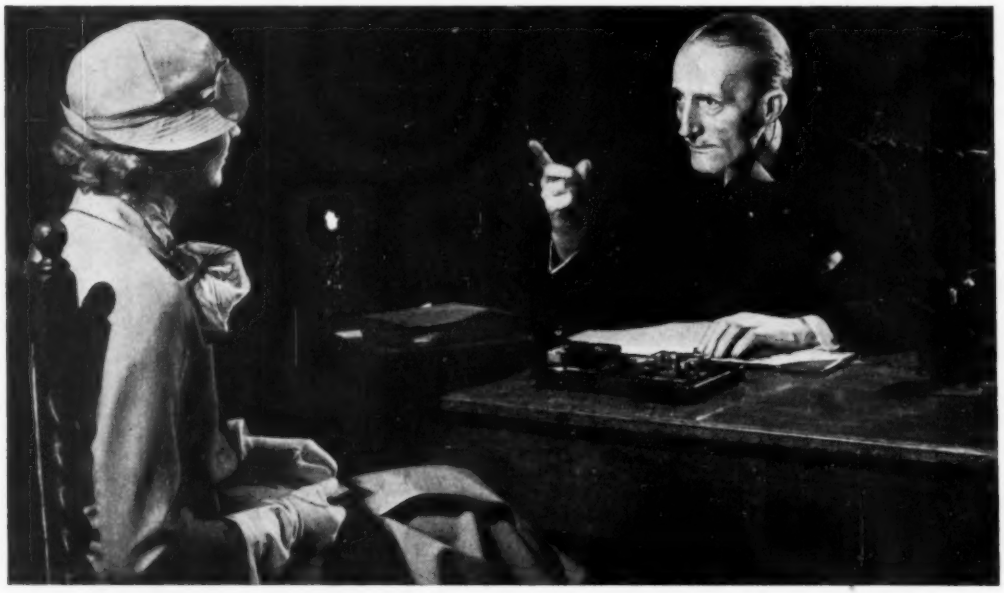

# *Contraceptive difficulties . . .*

## In such cases

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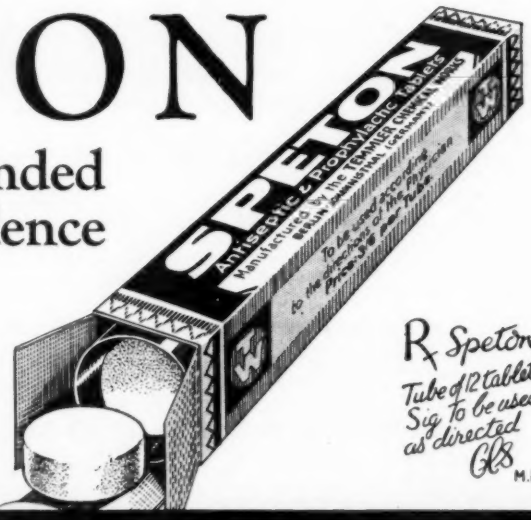
## can be recommended with every confidence




℞ Speton
Tube of 12 tablets
Sig. To be used as directed
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contains in each fluid drachm, hormones representing fresh testicle 25 grains, strychnine sulphate 1/200 grain, and sodium glycerophosphate 1 grain.

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contains in each fluid drachm, hormones representing fresh ovary 5 grains, strychnine sulphate 1/200 grain, and sodium glycerophosphate 1 grain.

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Adults - - - - - 3 tablets daily.
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(DETOXIFIED)

***Lederle***

THIS new form of therapy is recommended for the treatment of active cases of Whooping Cough as well as in general prophylaxis.

Free from bacterial cells, "PERTUSSIS ANTIGEN (DETOXIFIED) *Lederle*" is a departure from the usual form of vaccine therapy. Based upon a toxic principle derived from H. pertussis, treatment with formalin converts the toxic factor into a non-toxic substance having antigenic properties.

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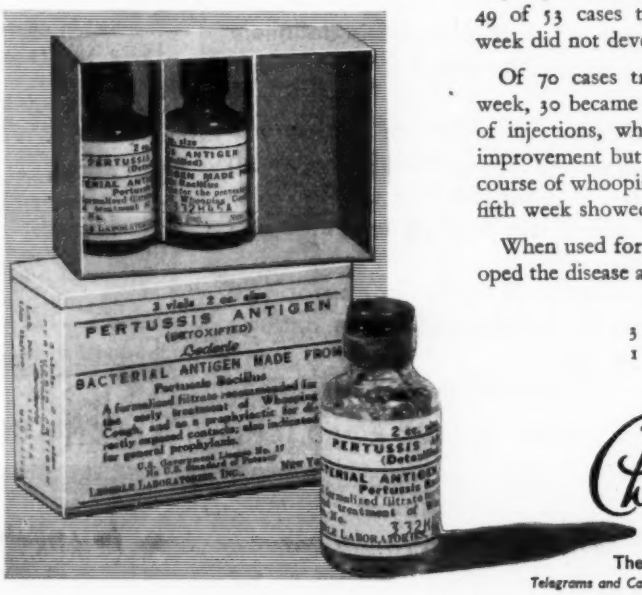
When used for *prevention*, only 3 out of 140 developed the disease and those 3 were mild atypical cases.

Packages
3 vials—2 cc. each, 6/3
1 vial—20 cc., 12/6

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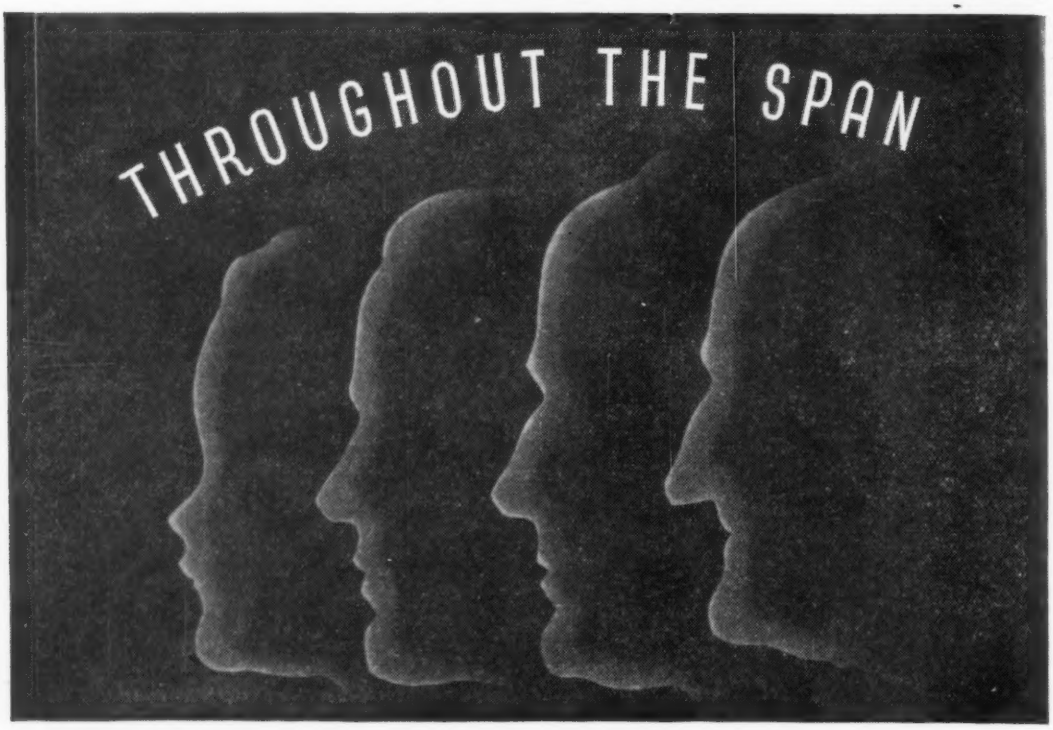


The problem of treatment in intestinal stasis is definitely settled in the minds of those thousands of physicians who depend on Agarol.

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The palatability of Agarol appeals to all. In appropriate doses it is mild enough for infants, yet active enough for the demands of adult age.

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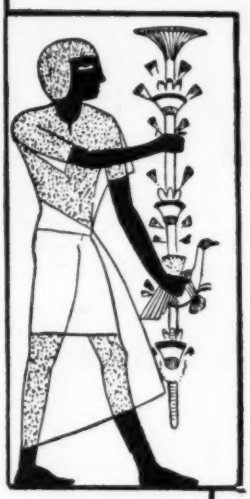

Many physicians ensure that the ordinary dietary of the young patient is safe and adequate by advocating the daily addition of 'Ovaltine.' This is a complete, well-balanced food, rich in natural vitamins and in readily assimilable calcium, phosphorus and iron.

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# A + B + C + D

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For the prevention and treatment of thrombosis.

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Hep/S/2

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Metaphedrin Inhalant No. 99 (Abbott) contains the powerful antiseptic Metaphen, 1 part in 2,500, and Ephedrine alkaloid, 0.95%, in a light, bland mineral oil. ● Metaphen has been found to be 250 to 1,500 times more germicidal than phenol, depending upon the organism tested. In 1:2,500 dilution it is non-toxic, non-irritating to mucous surfaces and does not coagulate serum or tissue albumins. The chief value of Ephedrine lies in its power to decongest and shrink the nasal mucous membrane. This is accomplished with little or no irritation. ● This combination of antiseptic and shrinking actions makes Metaphedrin Inhalant No. 99 an especially useful agent for the treatment of hypertrophic rhinitis, coryza, nasal and sinus infections, and the nasal congestion of hay fever. The product is of great value as a preventive of infection and is frequently used at the onset of certain cases to cut short the course of the disease itself. It is also valuable for instillation into infected sinuses and for use in all rhinological operative procedures.

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TRADE MARK BRAND OF LIVER EXTRACT

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A relatively crude extract like 'Campolon' contains a number of chemically distinct "fractions."

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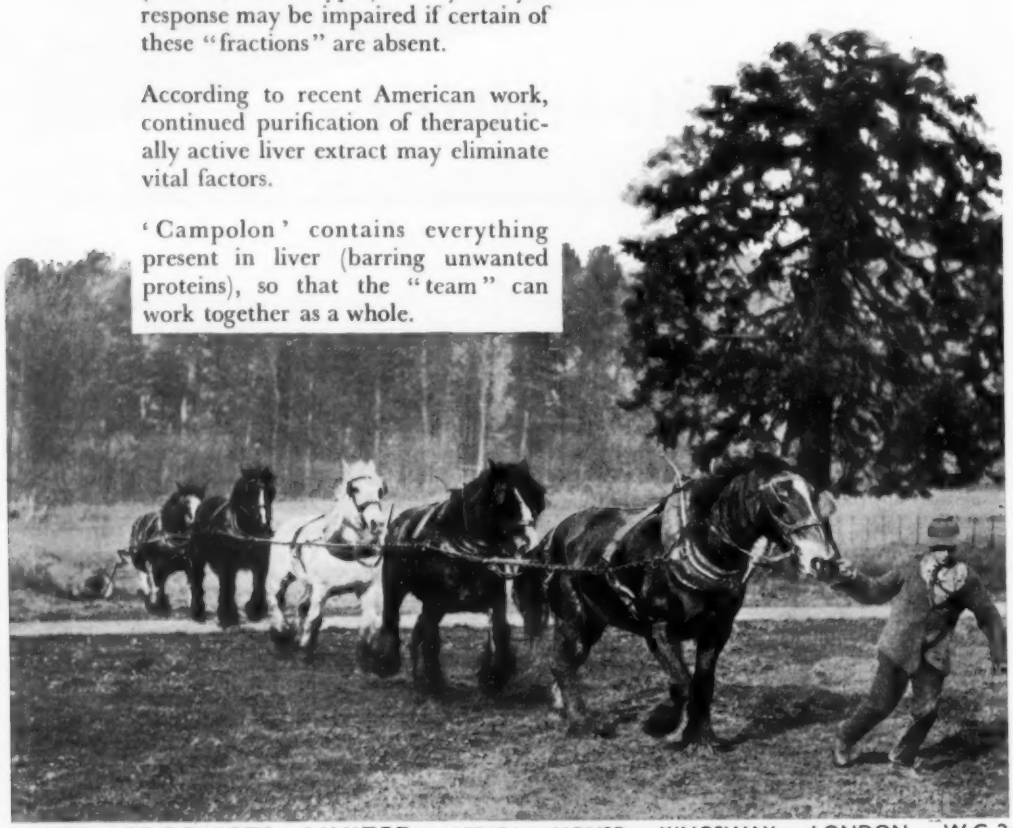
'Campolon' contains everything present in liver (barring unwanted proteins), so that the "team" can work together as a whole.



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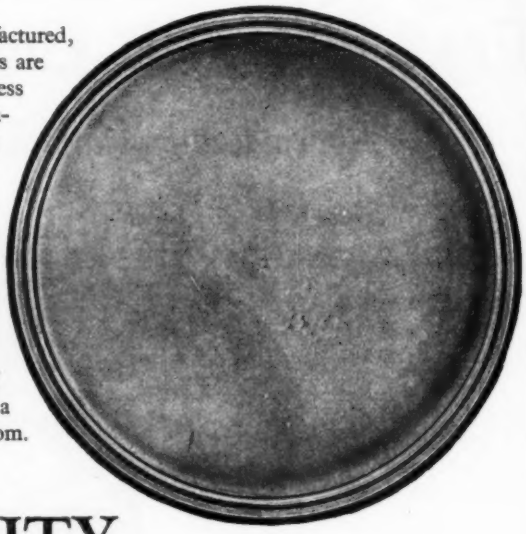
Every day that Dextri-Maltose is manufactured, control samples for bacteriological analyses are secured from certain points in the process which experience has shown give an accurate picture of the bacteriological condition of the product in the different steps of its manufacture. As a result of experiment and experience, it has been demonstrated that by exercising certain strict sanitary control measures and precautions, the bacteria count can be reduced to the point where the finished product approaches practical sterility. The Petri-dish at right shows a plate count of only 40 bacteria per gram, obtained from a package of Dextri-Maltose selected at random.



# THE REALITY OF THE UNSEEN

The things unseen determine the cleanliness, uniformity and safety of Dextri-Maltose. From years of study and experience, we know how to produce the bacteriologically clean product indicated above.

On the other hand, the Petri-dish at the left visualizes the potential danger that may accompany lack of experience. At 37° C., this sample (bought in the open market) showed a bacteria count of 420,000 per gram (compared with 40 per gram in Dextri-Maltose, as mentioned above). Every physician is deeply concerned about the pasteurization, certification, etc., of the cow's milk his babies are fed on, but even sterile milk would give the infant *over seventeen million* bacteria per daily feeding when "modified" with a carbohydrate such as is represented by the Petri-dish at the left.

*Samples and literature on application*

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The entire product manufactured in England.

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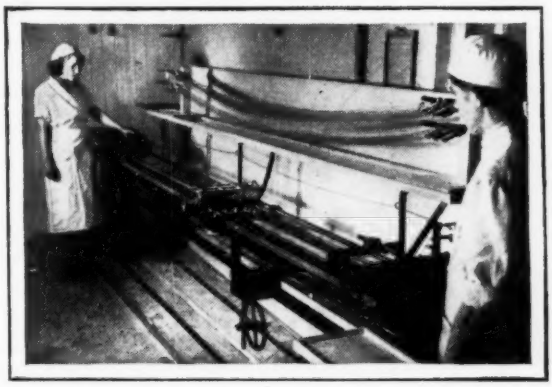
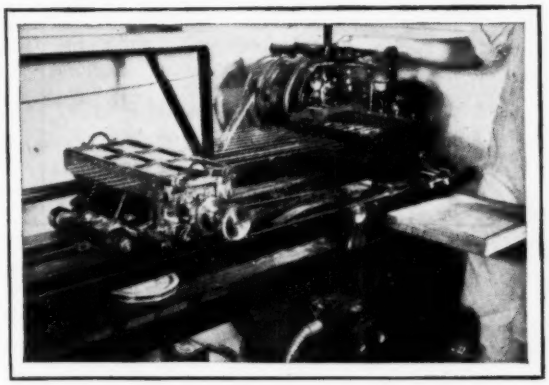


Precision Automatic Polishing, in one operation, of twelve catgut strands, each 10 feet in length.



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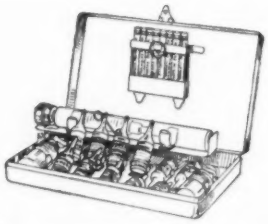
A very comprehensive equipment. Contains an 'AGLA' Syringe in Spirit-tight Container, glass-stoppered bottles for alcohol and distilled water, 'HYPOLOID' and 'TABLOID' Hypodermic Products.



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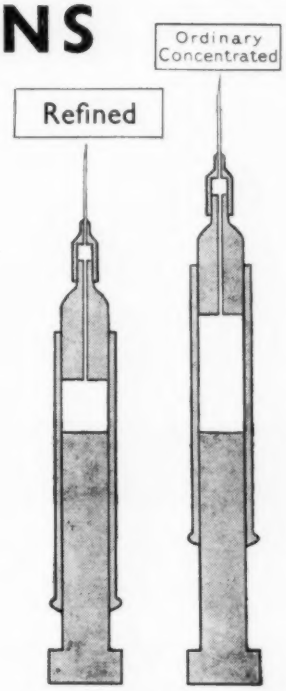


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Since their introduction the main obstacle to the general use of valve amplified deaf aids has been their bulk and weight. Attempts have been made to produce them in a form suitable for wear on the person without inconvenience, but in every case performance has been sacrificed to size, or the instrument has been ungainly for pocket use.

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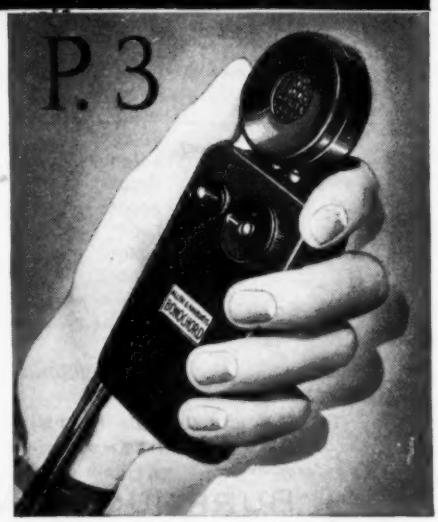

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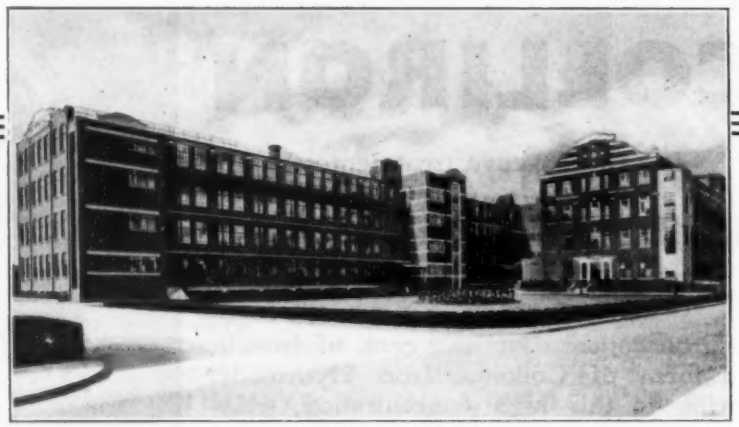

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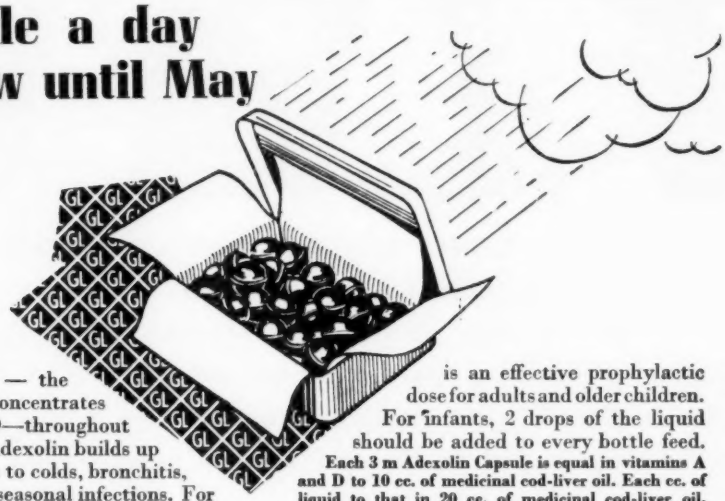

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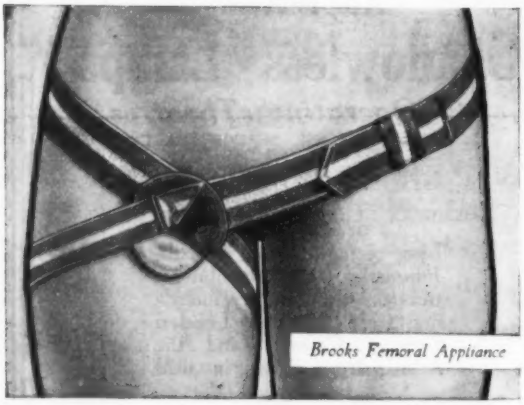

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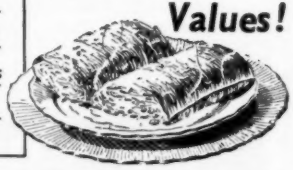

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For further particulars apply to the Physician-Superintendent.

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For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

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*Telegrams and Telephone:* WICKHAM MARKET 216. (Toll Call from London.)

*Proprietors:* THE NORWOOD SANATORIUM, LIMITED.

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A Private Hospital or Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

The weekly fees are from 15 guineas according to the room occupied; rooms with bathroom are from 21 guineas. The charges include all chemical, bacteriological, X-ray or other examinations advised by the doctors, and all the usual forms of treatment, in addition to board and lodging. There are no extra charges except for alcohol (when ordered) and laundry.

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*Telegrams:* Castle, Ruthin. *Telephone:* Ruthin 66.

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The central building makes the Mundesley Sanatorium the best equipped building in England for the cure of Tuberculosis. All the bedrooms have hot and cold running water, electric light, and wireless head-phones. The public rooms are spacious and comfortable.

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*For all information apply:*
THE SECRETARY,
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Telephone: Mundesley 94 and 95
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The buildings face S.S.W. and are sheltered from the sea by a pine-clad ridge. The sunshine record and dry air complete a perfect site. The medical equipment is of the latest kind, and there is a day and night nursing staff.

**TERMS FROM 7½ GUINEAS WEEKLY**

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## FOR MENTAL DISORDERS,

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*FOR THE UPPER AND MIDDLE CLASSES ONLY.*

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This Registered Hospital is situated in 120 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble, temporary patients, and certified patients of both sexes, are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

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This is a Reception Hospital, in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the most modern treatment of Mental and Nervous Disorders. It contains special departments for hydrotherapy by various methods, including Turkish and Russian Baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical Baths, Plombières treatment, &c. There is an operating Theatre, a Dental Surgery, and X-ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High Frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research.

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Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupation therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

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The Seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout fishing in the park.

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For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

# CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

***For the treatment of MENTAL DISORDERS.***

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens. Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

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First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

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# THE MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5.

Telephone: RODney 3841

A CLINIC instituted by the London County Council for treatment of Nervous and Curable Mental Disorder. Voluntary patients *only* received.

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Terms include (with rare exceptions) all forms of treatment, for which there are exceptional facilities as there is a Staff of Consultant Specialists, and the Central Laboratory of London County Mental Hospitals is attached to the Hospital. Inquiries of EDWARD MAPOTHER, M.D., F.R.C.P., F.R.C.S., Medical Superintendent.

# PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

**Telegrams: "Alleviated, London."** **Telephones: Rodney 2841 and 2842.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

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For particulars apply to Medical Superintendent.

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## For NERVOUS AND MENTAL DISORDERS

This hospital has every facility for complete investigation of the above conditions, and provides all forms of modern treatment, including psychotherapy, physiotherapy, occupational and recreational therapy. Cases of alcoholism and drug addiction are admitted. The Physiotherapy Department has separate units fully equipped for X-ray work, heliotherapy, short-wave therapy, electro-therapy, and hydrotherapy (swimming bath, prolonged baths, Scotch and Vichy douches, Plombières treatment, electric and Turkish bath cabinets, etc.). There is a fully equipped gymnasium under qualified instructors. Facilities are provided under special recreational therapists for all indoor and outdoor games, including golf course, cricket, football and hockey grounds, lawn tennis and squash courts, croquet and bowling greens.
The Hospital has its own Church, Library, Cinema and Hairdressing Saloon. Terms include regular motor drives.
Private rooms, suites, or villas are available, and special nurses can be provided. The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens and orchards.
As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

*For prospectus, necessary forms, and further information apply to:—*

Physician Superintendent, **P. K. McCowan**, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119.

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FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

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A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

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For further particulars apply to the MEDICAL SUPERINTENDENT.

# CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

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For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

# HAYDOCK LODGE,

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For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tels. Address:* Street, Ashton-in-Makerfield.

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HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

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(18 miles from London.) 400 feet above sea.

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A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

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'Phone: BEDFORD 3417. **Near BEDFORD**

**For Mental Cases with or without Certificates.**

*Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).*

For forms of admission &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

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## HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

## HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

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### A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES

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Drugs and Dressings free (other than Proprietary Articles). Illustrated Brochure on application to Secretary.

## The Elizabeth Garrett Anderson HOSPITAL, Euston-road, N.W.1.

The Managing Committee invite applications from fully qualified Medical Women for the appointment of part-time ASSISTANT RADIOLOGIST with charge of the X ray therapy. Duties to begin 1st January, 1939. Honorarium £100 per annum.

Candidates are requested to apply to the undersigned for particulars of the post and to forward before Friday, 2nd December, 1938, twelve copies of application with copies of three recent testimonials for the Managing Committee.

It is also necessary to send a copy of application to each member of the Honorary Medical Staff (twenty-three).

JEAN R. MURRAY, Secretary.

## The Elizabeth Garrett Anderson HOSPITAL, Euston-road, N.W.1.

Applications are invited from fully qualified Medical Women for the part-time post of SURGICAL REGISTRAR, non-resident, honorarium £100 per annum. Duties to commence 1st January, 1939.

Particulars of the post can be obtained from the undersigned to whom applications, with copies of three recent testimonials, should be sent before 2nd December, 1938.

JEAN R. MURRAY, Secretary.

## The Elizabeth Garrett Anderson HOSPITAL, Euston-road, N.W.1.

The Managing Committee invite applications from fully qualified Medical Women for the appointment of HONORARY ASSISTANT GYNÆCOLOGIST.

Applicants must be Fellows of the Royal College of Surgeons and Members of the College of Obstetricians and Gynæcologists. Duties to begin 1st January, 1939.

Candidates are requested to apply to the undersigned for particulars of the post and to forward before Friday, 2nd December, 1938, twelve copies of application, with copies of three recent testimonials for the Managing Committee.

It is also necessary to send a copy of application to each member of the Honorary Medical Staff (twenty-three).

JEAN R. MURRAY, Secretary.

## The Elizabeth Garrett Anderson HOSPITAL, Euston-road, N.W.1.

The Managing Committee invite applications from fully qualified Medical Women for the appointment of HONORARY PHYSICIAN to take charge of the ELECTRO-THERAPY and MASSAGE DEPARTMENTS. Duties to begin 1st January, 1939.

Candidates are requested to apply to the undersigned for particulars of the post and to forward before Friday, 2nd December, 1938, twelve copies of application with copies of three recent testimonials for the Managing Committee.

It is also necessary to send a copy of application to each member of the Honorary Medical Staff (twenty-three).

JEAN R. MURRAY, Secretary.

## The London Lock Hospital.

Applications are invited for the appointment of two SURGICAL REGISTRARS (Male) to the Lock Hospitals at Dean-street (Men) and Harrow-road (Women). Candidates must be Fellows (or Members) of the Royal College of Surgeons of England, or Surgical Graduates of a University of the United Kingdom. One candidate should preferably have had some previous obstetrical experience. The appointments are for one year in the first instance, commencing as at 1st December. Honorarium at the rate of £100 per annum.

Applications, with three copies of testimonials, must be in the hands of the Secretary not later than first post on Tuesday, 29th November, from whom any further information relating to the appointment can be obtained.

4th November, 1938, 283, Harrow-road, W.9.

## Connaught Hospital, E.17.

FOR WALTHAMSTOW, LEYTON, WANSTEAD, AND CHINGFORD.
(118 Beds and extending.)

Applications are invited for the post of HONORARY DERMATOLOGIST to the above Hospital. Gentlemen desirous of applying should be Fellows or Members of the Royal College of Physicians, and, preferably, on the staff of a London Teaching Hospital.

Applications should be received by Saturday, 3rd December.

Further details can be obtained upon application to the undersigned.

R. HALTON HARRISON, Secretary.

## Hospital for Tropical Diseases.

RESIDENT MEDICAL SUPERINTENDENT.

The Committee of Management of the Seamen's Hospital Society invite applications for this post falling vacant on 1st January, 1939. The appointment will be tenable for two years. Minimum commencing salary £250 per annum, with board, residence, and laundry. Candidates must be Male, single, and legally qualified and registered. Membership of the Royal College of Physicians and some knowledge of tropical medicine is desirable, but not essential.

Applications, stating age, with copies of not more than three recent testimonials, to be sent on or before 7th December, 1938, to D. A. C. PRICE, Secretary, Hospital for Tropical Diseases, 25, Gordon-street, W.C.1.

## City of London Maternity Hospital,

City-road, E.C.1.

Applications are invited for the post of Male ASSISTANT RESIDENT MEDICAL OFFICER, vacant January 1st next, salary £80 per annum. Three months' appointment. At the end of the period the candidate will, if satisfactory, be appointed Senior for three months at £100 per annum.

Forms of application, returnable not later than December 2nd, may be obtained from the undersigned.

RALPH B. CANNINGS, Secretary.

## St. Peter's Hospital for Stone, etc.,

Henrietta-street, Covent Garden, W.C.2.

The appointment of CLINICAL ASSISTANTS to the undermentioned members of the Honorary Staff, who attend the Out-patients Department at the times indicated, will be considered at an early date. A fee of Five Guineas becomes payable to the funds of this Hospital on appointment, and applications should reach the undersigned on, or about, Tuesday, 6th December.

| | | | |
|---|---|---|---|
| Mr. JOHN SANDREY | .. Mondays | .. 3.0 to | 6.0 P.M. |
| Mr. ALBAN ANDREWS | .. Tuesdays | .. 2.0 ,, | 5.0 P.M. |
| Mr. OGIER WARD | .. Wednesdays | .. 3.0 ,, | 7.0 P.M. |
| Mr. F. J. F. BARRINGTON | .. Thursdays | .. 3.0 ,, | 7.0 P.M. |
| Mr. R. OGIER WARD | .. Fridays | .. 9.30 ,, | 11.30 A.M. (women and children) |
| Mr. ALBAN ANDREWS | .. Fridays | .. 3.0 ,, | 6.0 P.M. (male out-patients) |
| Mr. JOHN SANDREY | .. Saturdays | .. 2.0 ,, | 6.0 P.M. |

BEECHEY ROGERS, Secretary.

## POST-GRADUATE COURSE IN VENEREAL DISEASES

LONDON COUNTY COUNCIL (WHITECHAPEL) CLINIC,
Turner-street, E.1. (Adjoining The London Hospital.)

A three months' COURSE OF INSTRUCTION in MODERN METHODS IN THE DIAGNOSIS AND TREATMENT OF VENEREAL DISEASES will be given by Lieut.-Colonel E. T. BURKE, D.S.O., the Director of the Clinic, during January, February, and March, 1939.

Attendance at this course will qualify, subject to the other conditions in the Regulations of the Ministry of Health, for the Certificate enabling the possessor to hold the position of a Venereal Diseases Officer under the Council of a County or County Borough.

The course will consist of twenty-five systematic lectures, accompanied by lantern demonstrations, on Mondays and Thursdays at 2.30 P.M., beginning on 9th January and ending on 30th March, 1939. Every Wednesday at 2 P.M. cases will be demonstrated. Those taking the course will also attend the practice of the Clinic in order to obtain tuition in intravenous injections, &c. During the three months 130 hours of attendance must be put in.

Those intending to take the course must send their names to the Director on or before 20th December, 1938. Fee, £10 10s.

## British Postgraduate Medical School.

There are Three vacancies for HOUSE SURGEONS to the Surgical Unit, British Postgraduate Medical School, Hammersmith Hospital. The appointments are for six months and are not renewable. Salary £105 per annum, with board, residence, laundry. Duties to commence on 1st January, 1939.

Duties are mainly in General Surgery, but one appointment is to the Department of Traumatic and Orthopædic Surgery. Applicants must have held a previous House appointment.

Applications, with copies of testimonials, should be sent to the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12, to arrive not later than the first post on Monday, 12th December, 1938.

## Bolingbroke Hospital,

Wandsworth Common, S.W.11.
(135 Beds.)

CASUALTY OFFICER (Male, unmarried) required.

The appointment is for six months commencing on the 1st January, 1939. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before December 7th, 1938.

W. S. RANDOLPH BISS, Secretary-Superintendent.

## Hampstead General Hospital,

Haverstock Hill, N.W.3.

Applications are invited from single Medical Men for the post of HOUSE SURGEON for six months vacant 1st January next. Salary £100 per annum.

Applications on the prescribed form with copies of three testimonials to be returned to the Secretary by 10th December.

## Hospital for Diseases of the Skin,

Blackfriars.

The Committee of Management will shortly appoint an additional member of the HONORARY STAFF. Candidates should be either Members of the Royal College of Physicians (London) or Fellows of the Royal College of Surgeons (England).

Applications, with testimonials in support, must be sent before December 12th to L. MUNDY, Secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

## The Queen's Hospital for Children,
Hackney-road, London, E.2. (160 Beds.)

RESIDENT MEDICAL OFFICER required on 1st January, 1939.

The appointment is made for six months, and may be extended for further periods of six months, but cannot be held for more than two years.

The Resident Medical Staff consists of the Resident Medical Officer as above, two Casualty Officers, two House Physicians, and two House Surgeons.

Salary (inclusive of panel fees) £200 per annum, with board, residence, and laundry. Candidates must have held a responsible resident appointment at a recognised hospital.

Forms of application may be obtained from the undersigned, and must be completed and returned on or before 6th December, 1938.

CHARLES H. BESSELL, Secretary.

14th November, 1938.

## The Queen's Hospital for Children,
Hackney-road, London, E.2. (160 Beds.)

HOUSE PHYSICIAN required 1st January, 1939.

CASUALTY OFFICER required 1st January, 1939. Some Dermatological work in addition.

Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.

Applications must be made on forms to be obtained from the undersigned, and be sent in, with copies of not more than three testimonials, on or before 7th December, 1938.

CHARLES H. BESSELL, Secretary.

14th November, 1938.

## National Hospital,
Queen-square, W.C.1.

RESEARCH FELLOWSHIP.

By the generosity of a private donor a Full-time Research Fellowship has been created for the investigation of DISORDERS OF MUSCLE at the National Hospital, Queen-square, London, W.C.

The Fellowship will be open to Graduates in Science or Medicine and is of the value of £500 per annum, tenable for one year in the first instance.

Applicants should state their previous experience and the method of investigations they propose to adopt.

Further particulars may be obtained from the Secretary, National Hospital, Queen-square, W.C.1, and applications should reach him by January 15th, 1939.

## Royal Masonic Hospital,
Ravenscourt-park, W.6.

A post of RESIDENT MEDICAL OFFICER (Male), preferably with M.R.C.P. qualification, will be vacant on 1st January, 1939. Salary at the rate of £300 per annum, with board, residence, and laundry. The appointment is for twelve months. Candidates must be registered, and must have held resident appointments in General Hospitals.

The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary Nursing Home treatment, &c.

Applications, stating full particulars, to be sent on or before Monday, 5th December, 1938, to the Honorary Secretaries, from whom further information may be obtained.

## National Temperance Hospital,
Hampstead-road, N.W.1.

Applications are invited for the following post:—

HOUSE SURGEON.

Salary £100 per annum, board, residence, and laundry allowance. The appointment is for a period of six months as from Dec. 1st. Preference will be given to those who have held resident posts.

Candidates must submit applications, stating qualifications, age, &c., with copies of not more than three testimonials, by Monday, 28th instant, addressed to the Secretary.

## The Salvation Army, The Mothers'
HOSPITAL, Lower Clapton-road, Clapton, E.5.

Applications are invited for the appointment of a Woman VENEREAL DISEASES OFFICER to The Mothers' Hospital. Salary, 416 guineas per annum.

Details of the appointment may be obtained from The Secretary-Superintendent, to whom the application with details of previous experience, and three recent testimonials, should be sent by November 30th, 1938.

FRED HAMMOND, Secretary.

## The London Chest Hospital,
Victoria Park, E.2.
(Bus, Tram and Railway, Cambridge Heath, L. & N.E.Rly.)

SURGICAL REGISTRAR (Male) (Part-time).

Applications are invited for the above post. Four sessions a week, Tuesday and Friday mornings essential. Appointment is for one year. Honorarium £100 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before Tuesday, December 6th, 1938.

THOMAS BROWN, Secretary.

# Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

*Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.*

## The Princess Beatrice Hospital,

Earl's Court, London, S.W.5.
(General Hospital. 81 Beds.)

Applications are invited for the appointment of HONORARY ASSISTANT SURGEON to the OPHTHALMIC DEPARTMENT of The Princess Beatrice Hospital. Candidates must be F.R.C.S. Eng., and engaged in Consulting Practice only.

Applications, together with copies of three recent testimonials, should be received by the Secretary by the first post, 5th December, 1938.

## The Princess Beatrice Hospital,

Earl's Court, London, S.W.5.
(General Hospital. 81 Beds.)

RESIDENT SURGICAL OFFICER (Male) required for a period of six months in the first place from 1st January, 1939, eligible for re-election. Salary at the rate of £200 per annum, with board, residence and laundry (together with £25 to cover all duties during the six months relating to Private Patients). Previous resident experience and F.R.C.S. essential.

Applications, with copies of three recent testimonials, should be received by the Secretary not later than 9 A.M., Monday, December 5th, 1938.

## The Gordon Hospital

FOR DISEASES OF THE RECTUM AND COLON,
Vauxhall Bridge-road, S.W.1.
(62 Beds extending to 102 in the future.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER at the above hospital. The appointment is for a period of six months to June 30th, 1939. It is desired that the successful candidate should commence duty January 1st, 1939.

Salary is at the rate of £150 per annum (plus £25 for the six months to cover all duties relating to Private Patients), together with board-residence and laundry.

Applications, accompanied by copies of three recent testimonials, should reach the undersigned by December 1st, 1938, and envelopes should be endorsed R.S.O.

E. S. FOLEY, Secretary.

## St. Paul's Hospital for Urological and

SKIN DISEASES, Endell-street, London, W.C.2.

Applications are invited for the post of Male HOUSE SURGEON. Candidates must be qualified and registered. Salary £100 per annum, with board-residence. The appointment is for three months in the first instance and the holder will later be eligible for the post of Resident Medical Officer. During his appointment as House Surgeon the duties involve work in the Surgical wards and in the Out-patient department.

Applications, with copies of recent testimonials, to be submitted not later than December 12th. The successful candidate will be required to take up duty about the end of December.

J. P. KEY CHISLETT, Secretary.

## Violet Melchett Infant Welfare Centre,

Flood-walk, Chelsea, S.W.3.

Applications are invited for the position of MEDICAL OFFICER in Charge of weekly Ante-Natal and Post-Natal Clinic. Wednesdays 2.0–4.0 P.M. Good experience essential.

Fee 1½ guineas per session.

Applications, with full particulars and three testimonials, should be sent to the Hon. Secretary by December 9th, 1938.

## South London Hospital for Women,

Clapham Common, S.W.4.

Applications are invited from medical women as
CLINICAL ASSISTANTS
for Gynæcological out-patients to attend on Tuesday mornings, for Surgical out-patients Tuesday afternoons and for Orthopædic out-patients to attend on Thursday afternoons.

Applications, with testimonials, to be sent to the Secretary at the hospital.

## The Hospital for Women,

Soho-square, W.1.

Applications are invited for the posts of HONORARY CLINICAL ASSISTANTS to the Surgeons in charge of Out-patients. The appointments will be for attendance at one or two Out-patient sessions per week for a period of six months, commencing January 1st, 1939. Sessions are held at 1.45 every week-day except Saturday.

Applications must reach the undersigned by Monday, 12th December, 1938.

J. P. HEMING, Secretary.

## St. John's Hospital, Lewisham, S.E.13.

Applications are invited for the resident appointment of HOUSE SURGEON (Male) tenable for six months from the 1st January, 1939, at a remuneration of £100 per annum.

Applications, with copies of testimonials, should be received by the undermentioned not later than Tuesday, the 13th December.

J. C. GILBERT, Secretary-Superintendent.

## London County Council.

Applications invited from registered Medical Practitioners of at least one year's standing, resident in the neighbourhood, for appointment as VISITING MEDICAL OFFICER (Part-time) at Princess Mary's Convalescent Home, Margate. Salary £200 a year.

Application form obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, S.E.1, returnable by 5th December.

Canvassing disqualifies.

## London County Council.

Applications invited from MEDICAL PRACTITIONERS of at least one year's standing to undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Grade I).—Salary £350–£25–£425, with board, lodging, and washing.

* (*a*) ARCHWAY HOSPITAL, Archway-road, Highgate, N.19. Medical duties, experience in anæsthetics desirable.

(*b*) ST. ALFEGE'S HOSPITAL, 48, Vanbrugh Hill, Greenwich, S.E.10. Surgical duties.

* (*c*) ST. MARY ABBOTS HOSPITAL, Marloes-road, Kensington, W.8. Surgical duties, fracture experience essential.

ASSISTANT MEDICAL OFFICERS (Grade II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(*d*) BETHNAL GREEN HOSPITAL, Cambridge-road, E.2. Medical duties, experience in diseases of children and tuberculosis desirable.

* (*e*) HACKNEY HOSPITAL, Homerton High-street, E.9. Medical duties, experience in anæsthetics desirable.

(*f*) LAMBETH HOSPITAL, Brook Drive, Kennington-road, S.E.11. Duties mainly medical, experience in obstetrics desirable.

(*g*) ST. GEORGE-IN-THE-EAST HOSPITAL, Raine-street, Wapping E.1. Medical duties, experience in anæsthetics desirable.

* No accommodation for a woman.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, S.E.1, returnable by 5th December.

Canvassing disqualifies.

## The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

The post of CLINICAL PATHOLOGIST will be shortly vacant. Salary £750 per annum.

The appointment is whole time and non-resident. Facilities, within certain limits, will be given for private pathological practice.

The successful candidate will be required to take up his duties preferably on the 1st March, 1939.

Candidates must be registered Medical Practitioners with special experience in bacteriology and clinical pathology.

Applications, accompanied by not more than three testimonials, given specially for the purpose must be delivered to the undersigned not later than NOON on Monday, the 19th December, 1938.

Candidates must be prepared to appear before the Joint Committee on Wednesday, 21st December, 1938, at 4.45 P.M.

Forms of application, and details of the appointment are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

## Dreadnought Hospital,

Greenwich, S.E.10. (Seamen's Hospital Society.)

One HOUSE PHYSICIAN and one HOUSE SURGEON required for six months from the 1st January, 1939. Salary £110 per annum and a proportion of fees with board, residence, and laundry. Candidates must be male and single.

Applications, with copies of three testimonials, to be sent in on or before 1st December, to the undersigned.

F. A. LYON, Secretary.

11th November, 1938.

## University of London.

The Senate invite applications for the University READERSHIP IN MEDICINE tenable at the British Postgraduate Medical School. Initial salary £800 a year.

Applications (12 copies) must be received not later than first post on 14th December, 1938, by the Academic Registrar, University of London, Senate House, W.C.1., from whom further particulars should be obtained.

## University of London.

The Senate invite applications for the University CHAIR OF MEDICINE tenable at University College Hospital Medical School. Salary £2000 a year.

Applications (12 copies) must be received not later than first post on 16th January, 1939, by the Academic Registrar, University of London, Senate House, W.C.1, from whom further particulars should be obtained.

## Charing Cross Hospital, W.C.2.

The Council invite applications for the post of CLINICAL ASSISTANT (Male) to the DERMATOLOGICAL DEPARTMENT.

Candidates should send in their applications, together with copies of three testimonials, to the undersigned not later than first post Monday, November 28th, 1938.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, Strand, W.C.2.

## Charing Cross Hospital, W.C.2.

REGISTRAR.

Applications are invited for the post of Registrar (Male) to the NOSE, THROAT, AND EAR DEPARTMENT.

Candidates must be registered Medical Practitioners and have some experience of the speciality.

Attendance four half-days per week. Appointment tenable for one year; eligible for re-election. Honorarium £100 per annum.

Applications in writing, stating age, qualifications, and experience, should be made to the undersigned not later than first post Monday, 28th November, 1938.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, Strand, W.C.2.

## King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN.

Applications with copies of three testimonials, should be sent before December 10th to the House Governor, King's College Hospital, Denmark-hill, S.E.5, from whom particulars of the duties may be obtained.

Candidates must be Members or Fellows of the Royal College of Physicians of London.

## Royal Chest Hospital,

City-road, E.C.1.

Applications are invited for the post of RESIDENT MEDICAL REGISTRAR (Male). Candidates must be registered Medical Practitioners of at least 2 years' standing and have held at least two previous house appointments.

The appointment is for 14 months from January 1st, 1939. Particulars concerning remuneration and emoluments (amounting to approximately £286 with board and residence), together with necessary forms of application and rules can be obtained from the undersigned.

Applications with copies of testimonials, should be sent by December 2nd to

GILBERT G. PANTER, Secretary.

## Queen Mary's Hospital for the East

END, Stratford, London, E.15.

Applications are invited from fully qualified and registered Medical Men (only) for the following posts:—

| | Salary (per annum) | Period (months) |
|---|---|---|
| One HOUSE SURGEON .. .. | £120 .. | Six |
| One HOUSE PHYSICIAN .. .. | £120 .. | Six |
| One HOUSE PHYSICIAN .. .. | £120 .. | Three |
| One OBSTETRIC HOUSE SURGEON | — .. | Six |
| One OUT-PATIENT OFFICER .. | £150 .. | Six |

The appointment will date from the 1st of January, 1939, and will be for six months, except in the case of one House Physician, which will be for three months. In the case of the Obstetric House Surgeon, above referred to, the appointment will be for three months as Junior at £110 per annum and for three months as Senior at £130 per annum, six months in all.

The Hospital contains 219 Beds, including 50 for Maternity.

Candidates, who must be single, should send applications, accompanied by copies of testimonials, to the undersigned not later than Wednesday, the 30th of November, 1938.

RAPHAEL JACKSON, Major, Secretary.

## Central London Throat, Nose, and Ear

HOSPITAL, Gray's Inn-road, W.C.1.

ASSISTANTS IN THE OUT-PATIENT DEPARTMENT.

There is a vacancy for a SECOND ASSISTANT to attend on Mondays at 2 P.M.

The duties are to assist the Surgeon in seeing the patients and the post is an honorary one.

Applications, which may be for periods of three, six, or twelve months, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

## East Ham Memorial Hospital.

Shrewsbury-road, E.7. (104 Beds.)

Applications are invited for the post of HOUSE SURGEON and CASUALTY OFFICER (Male) for six months, commencing 1st January. Salary at the rate of £120 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three recent testimonials, should reach the undersigned by 14th December.

REGINALD PERRY, Secretary.

## Junior Pathologist to the Devonport

PATHOLOGICAL LABORATORY, DREADNOUGHT SEAMEN'S HOSPITAL, Greenwich, S.E.10. The Committee of Management of the Seamen's Hospital Society invite applications for this post.

The appointment in the first instance will be for one year at a salary of £400 per annum, but the elected candidate will be eligible for re-election for a second year.

Applications, stating age and experience, with copies of not more than three recent testimonials, to be sent in on or before Friday, 9th December, to the undersigned.

F. A. LYON, Secretary.

Seamen's Hospital, Greenwich, S.E.10.

## Battersea Borough Council.

TEMPORARY ASSISTANT MEDICAL OFFICER. (Male.)

Applications are invited for the appointment of Temporary Assistant Medical Officer (Male) at a salary of £600 per annum. The appointment will be reviewed in 12 months' time.

The duties will be divided between the Council's scheme of air-raid precautions and the general public health work of the Council.

Forms of application containing further particulars may be obtained from me on sending a stamped, addressed envelope, and applications must be received by me by 5 P.M. on Friday, 16th December.

R. G. BERRY, Town Clerk.

Town Hall, Battersea, S.W.11, November, 1938.

## Woolwich and District War Memorial

HOSPITAL, Shooters Hill, London, S.E.18.
General Hospital. (112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for appointment as CASUALTY OFFICER for six months from January 1st, 1939. The remuneration will be at the rate of £100 per annum, plus board, residence, and laundry. The candidate appointed will act as deputy for the Resident Surgical Officer, with consequent opportunities for major surgery.

The closing date for the receipt of applications (which should be made on the prescribed form obtainable from the undersigned) is Monday, December 12th, 1938, and short-listed candidates will be invited to meet the Appointments Committee (at the Hospital) on Thursday, December the 15th, at 4.45 P.M.

R. S. G. HUTCHINGS, Secretary.

## Chelsea Hospital for Women,

Arthur-street, S.W.3.

There is a vacancy for a REGISTRAR AND RADIUM OFFICER (Gynæcological).

Candidates must be Graduates in Medicine of a recognised University, or Fellows or Members of one of the Colleges of Physicians of London, Edinburgh, or Ireland, or Fellows of one of the Colleges of Surgeons of England, Edinburgh, or Ireland. They must be registered under the Medical Act and engaged in consulting practice only. There is an honorarium of £75 per annum.

Applications are invited for the above post and must be sent to the undersigned, accompanied by copies of three testimonials, not later than Wednesday, 7th December.

GEO. W. COOLING, Secretary.

## Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the following appointment:—

HOUSE SURGEON, vacant January 15th, 1939. The appointment is for nine months (six months as House Surgeon and three months as Casualty Officer). Salary at the rate of £70 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by December 2nd to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

## University College Hospital,

Gower-street, W.C.1.

Applications are invited for the post of Whole-time ASSISTANT to the Department of Radiotherapy. Some Clinical experience essential. Commencing salary £350 per annum, rising by annual increments of £50 to £500 per annum. The successful applicant to commence duties on February 6th, 1939.

Applications must reach the Secretary of the Hospital not later than mid-day on Monday, 19th December, 1938.

## Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of RESIDENT ANÆSTHETIST AND EMERGENCY OFFICER (Male). The appointment will be for three months from January 1st, 1939. Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates, who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four recent testimonials, to the undersigned on, or before, Wednesday, November 30th, 1938.

J. A. BEARDSALL, Secretary-Superintendent.

## York County Hospital.
(204 Beds.)

Applications are invited for the post of HOUSE SURGEON for a period of not less than six months. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M. on Monday, 5th December, 1938.

J. R. MACKRILL, Secretary.

## King Edward VII Hospital, Windsor.
(200 Beds.)

Two HOUSE SURGEONS required beginning January. Applicants must be fully qualified Men or Women and unmarried.

Salary at the rate of £120 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications and experience, accompanied by testimonials, should be sent to the undersigned not later than December 7th.

The appointments are recognised by the Royal College of Surgeons of England for the six month's training required of candidates before admission to the final examination for the Fellowship.

A. E. CHURCHER, Secretary.

## Cheshire County Mental Hospital,
PARKSIDE, MACCLESFIELD.

Male ASSISTANT MEDICAL OFFICER required, not over thirty years of age and single. Previous Mental Hospital experience not essential. Salary £350, rising annually by £25 to £450, with board, apartments and laundry, valued at £100, subject to deductions under the Asylums Officers' Superannuation Act, 1909.

The successful candidate will be expected to obtain the D.P.M. (which carries with it an addition of £50 per annum to the salary stated), as soon as possible after appointment. There is every scope for original research, the Hospital having a modern laboratory and full equipment for the latest methods of treatment. Time will be arranged for attendance of lectures at Manchester University.

Preference will be given to candidate with Laboratory experience.

Applications, stating qualifications, with copies of three recent testimonials, to be sent to the Medical Superintendent, to be received as soon as possible.

## Royal South Hants and Southampton
HOSPITAL. (296 Beds.)

Applications are invited for the following appointments—

One HOUSE PHYSICIAN,

One CASUALTY OFFICER,

for the six months commencing 1st January, 1939, each at a salary of £150 per annum, with board, lodging, and laundry. Candidates must be Male and unmarried.

Applications, accompanied by not more than three testimonials, should be sent to the undersigned not later than Monday, 5th December.

S. W. BARNES, House Governor and Secretary.

## St. Mary's Hospitals, Manchester.

One HOUSE SURGEON for the WHITWORTH STREET WEST HOSPITAL (Maternity) and three for the WHITWORTH PARK HOSPITAL (two Gynæcological Department and one Children's Department); each for a period of six months from the 1st February next. Salaries at the rate of £50 per annum, with board and residence.

RESIDENT ANÆSTHETIST, to reside at the Maternity Branch and to give morning sessions in the Gynæcological and Children's Departments, for a period of twelve months from the 1st February next, at a salary at the rate of £100 per annum, with board and residence. Successful candidates will be eligible for admission to the examination of the Examining Board in England for the Diploma in Anæsthetics, providing he has also held an appointment as House Physician or House Surgeon at a recognised General Hospital for six months.

Applications, with copies of three testimonials, to be sent to the undersigned on or before the 13th December.

A. R. WISE, Superintendent and Secretary.

## Royal Manchester Children's Hospital,
PENDLEBURY, Near MANCHESTER.
(232 Beds.)

RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Resident Medical Officer. Salary £150 per annum. The appointment is for a period of six months, commencing 1st January, 1939. Candidates must be unmarried and duly registered. Previous hospital experience essential.

Applications, stating age, and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Friday, 2nd December. Canvassing, directly or indirectly, may disqualify.

By Order,

H. HEARDMAN, Secretary.

## Royal Manchester Children's Hospital,
PENDLEBURY, near MANCHESTER.
(232 Beds.)

RESIDENT HOUSE SURGEON.

Applications are invited for the post of Resident House Surgeon for a period of six months, commencing 1st February, 1939. Salary £100 per annum. Candidates having previous experience in the administration of Anæsthetics will be given preference.

Applications, stating qualifications and past experience, together with testimonials, to be sent to the undersigned not later than Thursday, 29th December, 1938.

Canvassing, directly or indirectly, may disqualify.

By Order,

H. HEARDMAN, Secretary.

## West Ham Hospital for Nervous and
MENTAL DISORDERS, GOODMAYES, ILFORD, ESSEX.

Applications are invited for a Male JUNIOR ASSISTANT MEDICAL OFFICER at the above Hospital. Candidates must be unmarried.

The commencing salary is at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, together with emoluments consisting of board, laundry and attendance, valued for superannuation purposes at £150. The person appointed will also be paid, in addition to his salary, the sum of £50 per annum on obtaining the Diploma of Psychological Medicine.

The appointment is subject to six months probation, and to the provisions of the Asylums Officers' Superannuation Act, 1909, Class 1, and to a satisfactory medical examination.

The Hospital is situate 10 miles from London.

Applications, stating age and experience, accompanied by copies of three recent testimonials, must reach the Medical Superintendent not later than 12th December, 1938.

## Royal Halifax Infirmary.
Hospital recognised by the Royal College of Surgeons (England).

Wanted, a RESIDENT SURGICAL OFFICER (Male, unmarried). Candidates must be duly qualified and registered. Preference will be given to candidates holding higher qualifications. The appointment will be from or about 20th December, 1938, for a period of twelve months. Salary, including all services required in connexion with Paying Patients' Ward, £250 per annum, with residence, board, and laundry. The Resident Staff consists of Resident Surgical Officer and three House Surgeons. The Hospital contains 250 beds, including Maternity Department, and Paying Patients' Block. There is also a Pathological Laboratory and a large Eye, Ear, Nose, and Throat Department, Radiological Department, and Radium Clinic.

Particulars of the duties may be obtained from the undersigned, to whom applications, stating age, nationality, &c., together with testimonials, should be sent by 30th November, 1938.

A. MIDGLEY, Secretary.

21st November, 1938.

## The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)

HOUSE SURGEONS (General Surgery) 2.
HOUSE PHYSICIAN.

Applications are invited for the above resident posts which become vacant on 1st January next.

The Hospital contains 300 beds, includes the usual special departments and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must be registered under the Medical Acts, and unmarried.

The appointments are for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 14th November, 1938.

## Worthing Hospital.

Applications are invited for the post of SURGEON to the Hospital. Candidates must be Fellows of the Royal College of Surgeons of England or Masters in Surgery of a British University. They should not be engaged in general practice and must reside within easy access to the Hospital.

Applications with not more than three testimonials (copies only), together with the names of persons to whom reference can be made, should be sent to the Secretary Superintendent of the Hospital, from whom further particulars may be obtained. They should be received not later than 17th December, 1938.

## Women's Hospital, Melbourne.—Date

for receipt of applications for PATHOLOGIST has been postponed until 1st December, 1938. Salary £1000 per annum.

Further particulars from the Secretary, Universities Bureau of the British Empire, 88a Gower-street, London, W.C.1.

## Hull Corporation Health Department.

DEPUTY MEDICAL SUPERINTENDENT,
CITY HOSPITALS AND SANATORIUM.

Applications are invited from duly qualified unmarried Medical Men, under the age of forty years and of not less than three years' standing in their profession, for the above-mentioned residential appointment at the TUBERCULOSIS SANATORIUM, COTTINGHAM.

Salary £450 per annum, rising, subject to satisfactory service, by annual increments of £25 to £550, plus residential emoluments valued for superannuation purposes at £150 per annum.

Candidates must hold a registered degree or diploma in State Medicine or Public Health. Residential sanatorium experience essential; infectious diseases hospital experience desirable.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Thursday, the 1st December, 1938.

NICOLAS GEBBIE, M.D., Medical Officer of Health.
Health Department, Guildhall, Hull, November, 1938.

## Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

KINGSTON COUNTY HOSPITAL. (568 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the appointment, which will be vacant in January, 1939, of Resident Assistant Medical Officer at the Kingston County Hospital.

The Medical Officer appointed must have had post-graduate hospital experience in the administration of anæsthetics as his duties will be largely those of Anæsthetist.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials should be addressed to the Medical Superintendent, Kingston County Hospital, Wolverton-avenue, Kingston-upon-Thames, so as to be received not later than 3rd December, 1938.

DUDLEY AUKLAND, Clerk of the Council.
County Hall, Kingston-upon-Thames, 14th November, 1938.

## County Borough of Southend-on-Sea.

SOUTHEND MUNICIPAL HOSPITAL.

The Health Committee of the Town Council invite applications for the following appointments at their Municipal Hospital situate at Rochford, Essex. The Hospital at present comprises 460 beds, but considerable extensions are in course of erection. There is a staff of Visiting Consultants and the Hospital is a recognised Training School for Nurses.

(a) DEPUTY MEDICAL SUPERINTENDENT (RESIDENT)—Commencing salary £500 per annum, rising by annual increments of £25 to a maximum of £600 per annum, together with full residential emoluments valued for superannuation purposes at £150 per annum. Candidates must hold a higher University Degree in Medicine or be a Member of the Royal College of Physicians, and must have had considerable general hospital experience, including administration.

(b) SURGICAL OFFICER (NON-RESIDENT)—Commencing salary £500 per annum rising by annual increments of £25 to a maximum of £600 per annum, with a non-resident allowance of £150 per annum. Candidates must be Fellows of the Royal College of Surgeons and must have had considerable experience in emergency surgery and the treatment of fractures.

Both appointments are designated posts under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidates will be required to pass a medical examination.

Forms of application, together with further particulars of the appointments, may be obtained from the Medical Officer of Health, Municipal Health Centre, Warrior-square, Southend-on-Sea, and applications should be received by him not later than Monday, 5th December, 1938.

H. J. WORWOOD, Town Clerk.
15th November, 1938.

## The Bolton Royal Infirmary.

(318 Beds, including two Auxiliary Hospitals.)

ASSISTANT PATHOLOGIST.

Applications are invited from qualified Medical Men or Women for the above post. Post-graduate experience in the routine methods of a general hospital laboratory is essential.

The appointment is a whole-time one.

Salary £600 per annum.

Further information may be obtained from the undersigned, to whom applications, stating age, nationality, and experience, and enclosing two copies of recent testimonials, should be sent not later than November 28th, 1938.

H. CORLESS, Secretary.

## Cornwall County Council.

COUNTY MEDICAL OFFICER.

Applications are invited for the appointment of County Medical Officer of Health. Candidates must be qualified, in accordance with the Local Government Act, 1933, and the Regulations thereunder, to carry out the statutory duties of the office, and such other duties as may be prescribed by the Minister of Health or the County Council.

Inclusive salary £1200 a year, with travelling allowance on the County Scale.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, should reach the undersigned by the 6th December, 1938.

T. A. H. SHEERS, Clerk of the County Council.
County Hall, Truro, 15th November, 1938.

## Children's Hospital, Nottingham.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Woman). The salary will be at the rate of £150 per annum, with apartments, board, and laundry. The appointment will be for six months, duties to commence on the 1st January, 1939.

Applications, together with testimonials, stating age, qualifications, and experience, to be sent to the Honorary Secretary, 1, King John's Chambers, Bridlesmith-gate, Nottingham, on or before Tuesday, the 29th November.

Selected candidates will be required to attend at the Hospital for a personal interview.

## County Borough of Halifax.

THE HALIFAX GENERAL HOSPITAL. (405 Beds.)

JUNIOR RESIDENT MEDICAL OFFICER. (Male.)

Applications are invited from duly qualified registered Medical Practitioners for the above appointment, for duties mainly in the surgical wards.

Salary £250 per annum, together with board, residence, and laundry. The appointment will be for a term not exceeding 12 months and is not renewable.

Forms of application and conditions of appointment can be obtained from the Medical Officer of Health, Powell-street, Halifax.

Completed applications, together with copies of not more than three recent testimonials, endorsed "Junior Resident Medical Officer" should be forwarded to the undersigned as early as possible.

Canvassing, either directly or indirectly, will be a disqualification.

The Council has not adopted a superannuation scheme.

PERCY SAUNDERS, Town Clerk.
Town Hall, Halifax, 15th November, 1938.

## The King Edward VII Welsh National

MEMORIAL ASSOCIATION.

Applications are invited from duly registered Medical Practitioners (Male, single) for the post of ASSISTANT RESIDENT MEDICAL OFFICER (twelve months' appointment) at the NORTH WALES SANATORIUM (247 Beds for Female Pulmonary and Male, Female, and Children Non-pulmonary cases), DENBIGH, NORTH WALES.

Salary £200 per annum, plus maintenance.

Applications, stating age, qualifications, experience, &c., together with copies of three recent testimonials, should reach the undersigned not later than Wednesday, November 30th, 1938.

D. A. POWELL, Principal Medical Officer.
Memorial Offices, Westgate-street, Cardiff.

## Hull Corporation Health Department.

ANLABY ROAD INSTITUTION (HOSPITAL). 580 Beds.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from Registered Medical Practitioners, of either sex, under the age of 40 years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with an allowance at the rate of £150 per annum for board and residence outside the hospital.

The hospital is equipped with modern X ray and Radium Departments.

The appointment will be designated under the Local Government and Other Officers' Superannuation Act, 1922.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, 5th December, 1938.

NICOLAS GEBBIE, M.D., Medical Officer of Health.
Health Department, Guildhall, Hull.
November 14th, 1938.

## St. Paul's Eye Hospital, Liverpool.

HOUSE SURGEON required 1st January, 1939.

Six months' appointment. Salary £145 per annum, with board, residence, &c.

Applications, with copies of testimonials, should be sent to the Secretary on or before 10th December.

## Leicestershire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH AND DISTRICT MEDICAL OFFICER OF HEALTH.

Applications are invited for the joint Whole-time appointment of an Assistant County Medical Officer of Health for the Administrative County of Leicester and Medical Officer of Health for the Rural District of Barrow-upon-Soar in the said County at a salary of £800 per annum, with a travelling allowance of £140 per annum. Office accommodation and clerical assistance will be provided by arrangements to be agreed upon by the appointing Authorities. The estimated total population of the Sanitary District is 38,340, the acreage of the area being 54,804.

Applicants, who should not be over forty-five years of age, must be duly qualified and registered Male Medical Practitioners with experience in Public Health duties and must hold the Diploma in Public Health or its equivalent. The Officer appointed will be required to reside at such place in or adjacent to the Sanitary District as shall be approved. As regards the duties of an Assistant County Medical Officer of Health, the Officer will act under the general control of the County Medical Officer of Health and will be required to perform such duties as may from time to time be prescribed. As regards his duties as District Medical Officer of Health, the Officer will be subject to the sole control and direction of the Local Sanitary Authority.

The joint appointment is subject to the approval of the Minister of Health and the Board of Education, and also, so far as the office of District Medical Officer is concerned, to the provisions of the Sanitary Officers (Outside London) Regulations, 1935. The joint appointment will be one under the Local Government Superannuation Act, 1937, and the selected candidate will be required to pass a medical examination. The joint appointment will be determinable by three months' written notice on either side, subject so far as the office of the District Medical Officer of Health is concerned to the consent of the Minister of Health.

Forms of application, together with a list of duties, may be obtained from the undersigned and, accompanied by copies of not more than three recent testimonials, should be returned to him not later than the 13th day of December, 1938.

Canvassing, directly or indirectly, will be deemed a disqualification.

LUCAS E. RUMSEY, Clerk of the County Council.

County Offices, Grey Friars, Leicester, 21st November, 1938.

## The Guest Hospital, Dudley.

(General Hospital. 139 Beds.)

The Resident Staff consists of a Resident Surgical Officer and Three House Surgeons.

HOUSE SURGEON (Male) required. Salary at the rate of £150 per annum, with furnished apartments, board, and laundry. Candidates must be fully qualified and registered.

Applications, stating age, qualifications and experience, accompanied by copies of testimonials, to be sent to the undersigned.

H. RAYMOND HURST, House Governor and Secretary.

21st November, 1938.

## County Council of Durham.

ASSISTANT WELFARE MEDICAL OFFICER.

The County Health Committee invite applications for an Assistant Welfare Medical Officer (Woman) at a commencing salary of £600 per annum, rising by annual increments of £25 to £700 per annum. Travelling allowance will be paid by the County Council in accordance with a scale to be approved from time to time.

The appointment will be held subject to three calendar months' notice on either side, and to the following conditions :—

(1) The officer appointed must be a registered Medical Practitioner between the ages of twenty-five and fifty-five years, must devote the whole of her time to the duties of the office, and must not engage in private practice.

(2) She should either have had a previous appointment as Medical Officer of an Ante-natal Clinic, with the approval of the Minister of Health, or have had at least three years' experience in the practice of her profession and special experience of practical Midwifery and Ante-natal work. The holding of a Diploma in Public Health will be deemed an additional qualification for the post.

(3) She will be subject to the directions of the County Medical Officer of Health.

(4) She will be required to reside in Durham City, or such other place as required by the Council.

(5) She must be prepared to undertake any duties in connexion with the Maternity and Child Welfare Services of the County Council, including attendance at Birth Control Clinics.

(6) She must be prepared, if called upon, to act as Locum Tenens to other members of the Medical Staff of the County Medical Officer of Health.

(7) The appointment will terminate on marriage.

(8) The candidate appointed will be required to pass the County Council's medical examination, and will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Applications, endorsed "Assistant Welfare Medical Officer," with copies of not more than three recent testimonials, must be addressed to the County Medical Officer of Health, Shire Hall, Durham, and must be received by him not later than Saturday, 10th December, 1938.

J. K. HOPE, Clerk of the County Council.

Shire Hall, Durham, 21st November, 1938.

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## County Council of Durham.

DISTRICT TUBERCULOSIS MEDICAL OFFICER.

The County Health Committee invite applications for a District Tuberculosis Medical Officer, at a commencing salary of £600 per annum, rising by annual increments of £25 to £700 per annum. Travelling allowance will be paid by the County Council in accordance with a scale to be approved from time to time.

The appointment will be held subject to three calendar months' notice on either side, and to the following conditions :—

(1) The officer appointed must be a registered Medical Practitioner under the age of 50 years, must devote the whole of his time to the duties of the office, and must not engage in private practice.

(2) He should have held a previous appointment as Tuberculosis Medical Officer, with the approval of the Minister of Health, or

(i) have had at least three years' experience in the practice of his profession ;

(ii) have spent in general clinical work a period of not less than eighteen months, of which not less than six months have been spent in a hospital as Resident Medical Officer in charge of beds occupied by general medical or surgical cases ; and

(iii) have received special training for a period of not less than six months in the diagnosis and treatment of tuberculosis.

(3) He will be attached to the County Health Department and will, subject to the direction of the County Medical Officer, be under the control of the Central Tuberculosis Medical Officer.

(4) He will be required to reside in his Dispensary area, or such other area as required by the Council.

(5) He must be prepared, if called upon, to act as locum tenens to other members of the medical staff of the County Medical Officer.

(6) The holding of a Diploma in Public Health will be deemed an additional qualification for the post.

The candidate appointed will be required to pass the County Council's medical examination and will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Applications, endorsed "District Tuberculosis Medical Officer," and accompanied by copies of not more than three recent testimonials, must be addressed to the County Medical Officer, Shire Hall, Durham, and must be received by him not later than first post on Monday, 5th December, 1938.

J. K. HOPE, Clerk of the County Council.

Shire Hall, Durham, 14th November, 1938.

## County Borough of Bournemouth.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER (Male).

Applications for the above are invited from duly registered Medical Practitioners who should be single and under forty years of age and hold a diploma of Public Health.

The person appointed may be required to undertake any public health work, but special experience of infectious diseases including immunisation is desirable.

Board, lodging, and laundry will at present be provided at the hospital for infectious diseases, and for these a deduction of £100 per annum will be made from the salary which will commence at £500 and rise by annual increments of £25 to a maximum of £700, less 5 per cent. deduction for superannuation purposes.

Application forms can be obtained from the Medical Officer of Health, Town Hall, Bournemouth, to whom they must be returned, with copies of three recent testimonials, not later than the first post of December 10th, 1938.

Canvassing of any kind will be a disqualification.

HERBERT ASHLING, Town Clerk.

Town Hall, Bournemouth.

18th November, 1938.

## Worcester County and City Mental

HOSPITAL, POWICK, near WORCESTER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER. Applicants must be Male, single, under thirty-five years of age, and duly qualified in medicine and surgery. Commencing salary £350, rising by annual increments of £25 to a maximum salary of £450 per annum, together with furnished apartments, board, laundry, and attendance. A further £50 per annum will be paid if the selected candidate holds or obtains a Diploma in Psychological Medicine. Experience in Anæsthetics will be a recommendation. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, stating age and full particulars of qualifications and experience, accompanied by copies of three recent testimonials, to be forwarded to the Medical Superintendent not later than Friday, 2nd December, 1938.

## New Sussex Hospital,

Windlesham-road, BRIGHTON.

Applications are invited from qualified Medical Women for the post of HOUSE PHYSICIAN for six months from January 1st. Salary £100 per annum.

Applications, together with copies of three recent testimonials, to be sent to the undersigned by December 12th.

P. F. SPOONER, Secretary, New Sussex Hospital.

## County Council of Durham.

DEPUTY COUNTY MEDICAL OFFICER OF HEALTH.

The County Health Committee invite applications for the appointment of a Deputy County Medical Officer of Health at a salary of £960 per annum. Reasonable travelling and out-of-pocket expenses will be paid by the County Council.

Applicants must be duly registered Medical Practitioners, holding a Degree or Diploma in Public Health, and the gentleman appointed will be required to devote the whole of his time to the duties of the office and to reside in the City of Durham or other approved centre. The appointment will be held subject to three calendar months' notice on either side.

He will be expected to undertake any duties required of him by the Council bearing on the Health and Medical Services of the County, and will act under the administrative control of, and be responsible to, the County Medical Officer of Health for his duties.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to a medical examination as required by the Council for the purposes of the Act, and the statutory contributions to the Superannuation Fund under that Act will be deducted from the salary.

Applications, marked "Deputy County Medical Officer of Health," together with copies of not more than three recent testimonials, must be sent to the County Medical Officer of Health, Shire Hall, Durham, not later than Saturday, 10th December, 1938.

J. K. HOPE, Clerk of the County Council.

Shire Hall, Durham, 21st November, 1938.

## West Riding of Yorkshire Mental HOSPITALS BOARD.

APPOINTMENT OF MEDICAL SUPERINTENDENT.
WADSLEY MENTAL HOSPITAL, near SHEFFIELD.

The West Riding of Yorkshire Mental Hospitals Board invite applications from duly registered Medical Practitioners for the appointment of a Medical Superintendent in their service at the Wadsley Mental Hospital, near Sheffield.

Candidates must have had previous experience as the Medical Superintendent or a Senior Medical Officer of a Mental Hospital. Special consideration will be given to candidates holding Membership of the Royal College of Physicians or a Degree of a British University, and who possess the Diploma in Psychological Medicine.

The person appointed will be required to devote his whole time to the duties of the office and to act in conformity with the provisions of the Lunacy and Mental Treatment Acts and the general rules and regulations of the West Riding of Yorkshire Mental Hospitals Board.

The minimum and maximum salaries fixed for the position are £1000 and £1400, the annual increments being £50. The commencing salary to be paid will within these limits be according to qualifications and experience and is entirely at the discretion of the Board.

The person appointed will be provided with an unfurnished house, which will be deemed to be valued, for superannuation purposes, at the sum of £50 per annum. There are no other emoluments attached to the position. The salary and value of the unfurnished house will be subject to deductions under the Asylums Officers' Superannuation Act, 1909.

Application must be made on a form which can be obtained, together with any other particulars, from the undersigned, to whom the completed forms should be returned not later than the 6th December, 1938.

Canvassing in any form will be a disqualification.

G. LESLIE BANNER, Clerk of the Board.

Board Offices, Victoria Chambers, Wood-street, Wakefield (P.O. Box No. 28).

## The Corbett Hospital, Stourbridge.

(100 Beds and Special Departments.)

Applications are invited for the post of HOUSE SURGEON, which will become vacant as from 1st January next.

The appointment will be for a period of six months, terminable by six weeks' notice, carries a salary at the rate of £100 per annum, with board, laundry, &c.

The Hospital has a Specialist Visiting Staff, a Resident Surgical Officer, and a House Physician.

Applications, giving full details of qualifications, age, and experience, accompanied by three copies of testimonials, should be addressed to the undersigned forthwith.

W. G. H. WESTON, Secretary.

## Ayr County Council.

HÆMATOLOGICAL TECHNICIAN.

Applications are invited from experienced Laboratory Technicians for the above post. The person appointed will be required to work under the County Obstetrician, and the duties will consist in routine hæmoglobin investigations and blood counts, as required, upon all patients attending the County Ante-Natal Clinics and Maternity Hospitals. Salary will be at the rate of £240 per annum, subject to deduction for superannuation.

Applications stating age, sex, experience, and present appointment, along with copies of three recent testimonials, to be submitted to the Medical Officer of Health, County Buildings, Ayr, before 15th December, 1938.

## Royal United Hospital, Bath.

HONORARY SURGICAL REGISTRAR.

Applications are invited for the post of Honorary Surgical Registrar.

Candidates must be Graduates in Surgery of a University of Great Britain or the British Empire.

Applications, stating age, qualifications, and full particulars of experience, together with a copy of three testimonials, should be addressed to the undersigned on or before December 15th.

J. LAWRENCE MEARS, Secretary-Superintendent.

19th November, 1938.

## Royal United Hospital, Bath.

HONORARY ANÆSTHETIST.

Applications are invited from registered General Practitioners for the post of Honorary Anæsthetist.

Applications, stating age, qualifications, and full particulars of experience, together with a copy of three testimonials, to be addressed to the undersigned by December 15th.

Other particulars may be obtained on application to

J. LAWRENCE MEARS, Secretary-Superintendent.

19th November, 1938.

## City of Manchester.

CRUMPSALL HOSPITAL. (1543 Beds.)
(Recognised under the regulations for the F.R.C.S.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT ASSISTANT OBSTETRICAL OFFICER at the above-named Hospital, which will become vacant in mid-January, 1939.

The salary for the appointment is £250 per annum, with board, residence, and laundry in addition, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Town Hall, Manchester, 2, and applications for the post must be received by him not later than Monday, December 5th, 1938.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 21st November, 1938.

## Middlesbrough Education Committee.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Men for a position as Assistant School Medical Officer in connexion with the medical inspection and treatment of school-children, and such other duties as may be required by the Education Committee. The person appointed will be generally responsible to the School Medical Officer.

Commencing salary £500 per annum (provided the successful candidate has had not less than three years' post-graduate experience), rising by annual increments of £25 to £700 per annum. The Committee may at their discretion take into account previous experience as an Assistant School Medical Officer in determining the amount of the commencing salary. The successful candidate will be required to devote his whole time to the duties of the office. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass satisfactorily a medical examination. The appointment will be terminable by two calendar months' notice on either side.

Forms of application may be obtained on application to the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned not later than Monday, 12th December, 1938.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Office, Municipal Buildings, Middlesbrough.
19th November, 1938.

## Durham County Hospital.

(100 Beds.)

Male HOUSE SURGEON required. Duties to commence 1st January, 1939.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for similar period.

Applications, stating age, experience, and nationality, accompanied by three recent testimonials, should be addressed to the undersigned not later than Friday, 2nd December, 1938.

NORMAN BROWN, Secretary.

## Salford Royal Hospital,

(256 Beds.)

Applications are invited from registered candidates (Male) for Two HOUSE SURGEONS for six months from 1st January next. Salary £125 per annum.

Forms of application, obtainable from the undersigned, must be delivered on or before 6th December.

By Order of the Board,

H. B. SHELSWELL, General Superintendent and Secretary.

21st November, 1938.

## The Jessop Hospital for Women,

SHEFFIELD.
(151 Beds.)

The Board of Management invite applications for posts of HOUSE SURGEONS (Male), unmarried, for a period of six months commencing 1st January, 1939.

Salary £100 per annum, together with board, residence, and laundry.

Applications, stating age, together with copies of testimonials, should be addressed to the undersigned immediately.

DAVID OSWALD, Superintendent and Secretary.

## The Jessop Hospital for Women,

SHEFFIELD.
Firth Auxiliary, Norton.

Applications are invited for the post of RESIDENT MEDICAL OFFICER, from Registered Medical Practitioners.

The appointment will be for six months commencing 1st January, 1939, subject to renewal for a further six months, with salary at the rate of £150 per annum, plus board, residence, and laundry.

Previous Obstetrical experience is desirable.

The Firth Auxiliary Hospital contains 47 beds, of which 23 are set apart for the treatment of Puerperal Sepsis, the remainder being for Ante-Natal and Gynæcological cases.

Applications should be lodged with the undersigned, addressed to the Jessop Hospital for Women, Sheffield, immediately.

DAVID OSWALD, Superintendent and Secretary.

## The Jessop Hospital for Women,

SHEFFIELD.
(151 Beds.)

The Board of Management invite applications for the post of SENIOR RESIDENT OFFICER (Male), unmarried.

The appointment is for six months, in the first instance, from 1st January, 1939.

Salary £150 per annum, plus board, residence, and laundry.

Previous resident experience essential.

The duties include charge of the Maternity Department, 36 beds, and general supervision of the Gynæcological Department.

Applications, stating age and experience, with copies of recent testimonials, should be forwarded immediately to the undersigned.

DAVID OSWALD, Superintendent and Secretary.

## City of Birmingham Education

COMMITTEE

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Required, to begin duty as soon as possible, an Assistant School Medical Officer (Male or Female). Candidates must have had at least three years' experience in the practice of their profession subsequent to obtaining a registrable qualification. Salary according to "Askwith" Scale (£500 to £700 by annual increments of £25). In fixing commencing salary previous service in Class II of "Askwith" Scale may be taken into account. £10 per annum travelling expenses allowed.

Forms of application (to be returned not later than first post on Monday, 5th December), together with further information, obtainable from the undersigned on receipt of stamped, addressed foolscap envelope. Communications should be endorsed "Assistant School Medical Officer." Canvassing will disqualify.

P. D. INNES, Chief Education Officer.

Education Office, Margaret-street, Birmingham, 3.
14th November, 1938.

## The Prince of Wales's Hospital,

Greenbank-road, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(254 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £225 per annum, with board, residence, and laundry.

Appointment is tenable for six months and subject to renewal. Duties to commence 20th December.

Candidates must be registered under the Medical Acts and it is desirable they should possess the F.R.C.S., England or Edinburgh.

Applications, stating age and qualifications, together with copies of three recent testimonials, to reach the undersigned by 30th November.

ARTHUR R. CASH, General Superintendent and Secretary.

## The Incorporated Liverpool School of

TROPICAL MEDICINE (University of Liverpool).

Applications are invited for the post of ASSISTANT LECTURER and DEMONSTRATOR in the Department of Parasitology at the above School.

Candidates should be graduates of a British or Colonial University, and must hold a medical qualification or a good degree in zoology.

Initial salary £300–£400 (according to the selected candidate's qualifications).

Applications should be made not later than December 31st, 1938, to the Secretary, School of Tropical Medicine, Pembroke-place, Liverpool, 3, from whom further particulars may be obtained.

## Pontefract General Infirmary (Yorks).

JUNIOR RESIDENT MEDICAL OFFICER (Male, unmarried), duly qualified registered Medical Practitioners. Commencing salary £150 per annum, with residence, board, and laundry.

The appointment to date for six months from January 1st, 1939.

Applications, stating age, with testimonials, and nationality to be sent to the undersigned at once.

DAVID J. RICHARDS, Secretary-Superintendent.

## Middlesex County Council.

WEST MIDDLESEX COUNTY HOSPITAL,
Twickenham-road, ISLEWORTH, MIDDLESEX.

Non-resident ASSISTANT RADIOLOGIST, registered Medical Practitioner holding D.M.R.E., experienced in diagnostic and therapeutic X-ray work.

Inclusive salary £650–£25–£800 per annum, on pensionable staff, subject to medical examination and three months' notice. Whole-time duties under direction of Medical Superintendent and Radiologist. Any fees received payable to County Council. Closing date 3rd December, 1938.

Written application to the undersigned in envelopes endorsed in top left-hand corner "B.3" and "W.Mdx.—Asst. Rad." enclosing copies of not more than three recent testimonials.

Canvassing, direct or indirect, disqualifies.

C. W. RADCLIFFE, Clerk of the County Council.

Guildhall, Westminster, S.W.1.

## Royal Alexandra Hospital for Sick

CHILDREN, BRIGHTON.
(100 Beds.)

HOUSE SURGEON (Male) required. Salary at the rate of £150 per annum, with board, lodging, and laundry. Good experience, no canvassing allowed. To take up duties at the beginning of December.

Applications in writing, accompanied by testimonials, should be sent forthwith to P.F.SPOONER, the Secretary at the Hospital.

November 16th, 1938.

## Northumberland County Council.

ST. GEORGE'S MENTAL HOSPITAL, MORPETH.

APPOINTMENT OF RESIDENT ASSISTANT MEDICAL OFFICER.

The Visiting Committee of the above-named Mental Hospital invite applications from fully qualified and registered Medical Practitioners for the above appointment. The successful candidate will be required to reside in the Hospital.

The commencing salary will be £400 per annum, together with the usual emoluments—i.e., furnished apartments, board, laundry, and attendance, valued for superannuation purposes at £100 per annum. An increase of £25 per annum will be granted on completion of twelve months' satisfactory service, and a further annual increment of £25, to a maximum salary of £450 per annum. A further £50 will be paid in the event of the successful candidate holding the D.P.M.

The candidate appointed will be required to pass a medical examination and to contribute under the Asylum Officers' Superannuation Act, 1909.

Applications, stating age (not over forty-five years) and full particulars of qualifications, experience, and appointments held, accompanied by copies of three recent testimonials, to be enclosed in an envelope endorsed "Mental Hospital Assistant Medical Officer," and addressed to the undersigned, so as to be received not later than 12th December, 1938.

C. HAROLD CARTER, Clerk of the Visiting Committee.

County Hall, Newcastle-upon-Tyne, 1.
22nd November, 1938.

## Kent and Sussex Hospital, Royal

TUNBRIDGE WELLS. (210 Beds.)

Applications are invited for the post of HOUSE SURGEON, EAR, NOSE, AND THROAT AND OPHTHALMIC DEPARTMENTS and Resident Anæsthetist, to commence duty 17th December, 1938, or possibly before that date.

Salary £150 per annum, with board, residence, and laundry in the Hospital.

The Hospital contains the following Departments:—
Medical, Surgical, Ear, Nose and Throat, Ophthalmic, Orthopædic, Gynæcological, X-ray, and Electrotherapeutic, Massage, Pathological, Venereal Diseases.

Applications, stating qualifications, together with Certificate of Registration, and copies of not more than three recent testimonials, should be sent to the undersigned as soon as possible.

TOM B. HARRISON, Superintendent-Secretary.

22nd November, 1938.

## The Sheffield Royal Hospital.

Applications are invited for the post of RESIDENT ANÆSTHETIST (Male) who will also act as Junior House Physician. Salary at the rate of £80 per annum, rising to £100 per annum in six months, with board, residence, and laundry.

Applications should be sent at once to—

W. H. BOOTH, Superintendent and Secretary.

## Royal Manchester Children's Hospital,
PENDLEBURY.

Applications are invited for the post of AURAL REGISTRAR from duly qualified Medical Practitioners.

Duties will include attendance at the Out-patient Clinics held at Gartside-street, Manchester, on Monday mornings and Thursday afternoons, administration of anæsthetics and occasional attendance on in-patients at Pendlebury. Salary at the rate of £75 per annum. Previous experience in aural surgery essential.

Applications, together with copies of three testimonials, to be sent not later than Friday, 2nd December, to the undersigned from whom further particulars relating to the post may be obtained.

By Order,
H. HEARDMAN, Secretary.

## The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)

Applications are invited for the post of REGISTRAR to the FRACTURE AND ORTHOPÆDIC DEPARTMENT.

The Hospital contains 300 Beds and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must possess one of the higher qualifications in Surgery.

The post is a non-resident one, and the appointment will be in the first place, for twelve months. Salary £400 per annum.

Applications, with copies of testimonials, to be forwarded to the undersigned, from whom further information may be obtained.

W. H. HARPER, House Governor.

22nd November, 1938.

## County Mental Hospital, Lancaster.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Female). Candidates must be single and under thirty-five years of age. Commencing salary £550 per annum, rising to £600 after one year's satisfactory service, with further increases on promotion, subject to a deduction of 3 per cent. under the Asylums' Officers' Superannuation Act, 1909. There are no emoluments.

The selected candidate will be required to live in the Hospital, and she will be provided with board, lodging, &c., for which a charge of £150 a year is made.

The possession of a Diploma in Psychological Medicine will entitle the officer to an additional £50 per annum.

Applications, giving full particulars, with testimonials (copies only), should be forwarded to the Medical Superintendent on or before the 30th November, 1938.

**The Royal Army Medical Corps** ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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**Assistantship wanted, Birmingham** district, with a view to Partnership preferred, but not essential. Four years' hospital experience in Yorkshire. Qualified M.B., B.Ch., B.A.O. 1934, and M.D. 1938—Queen's University, Belfast.—Address, No. 530, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

**Anæsthetics.—Wanted to purchase,** Old Apparatus and Literature which would have historical interest for Anæsthetists.—Address, No. 528, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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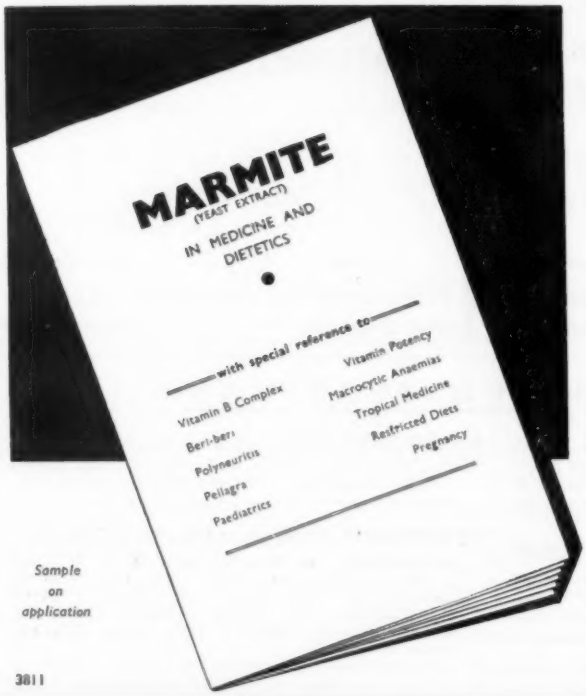


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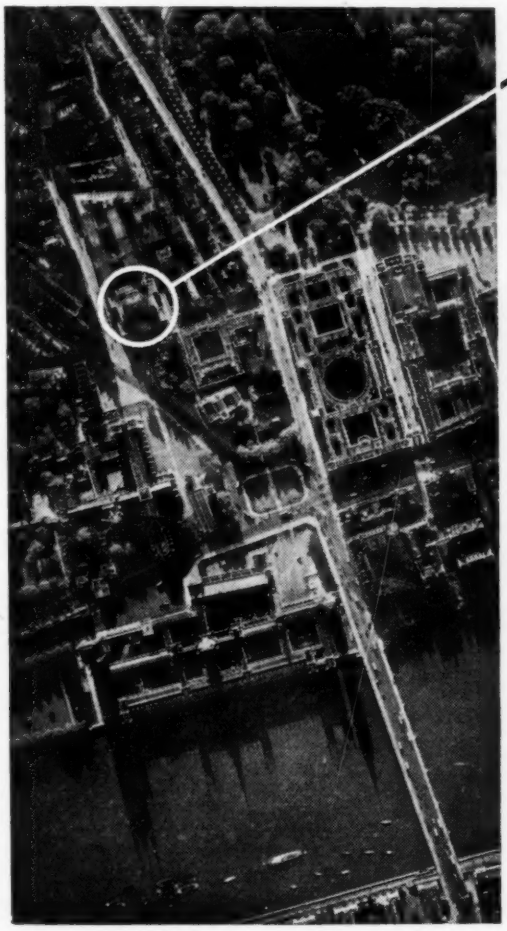

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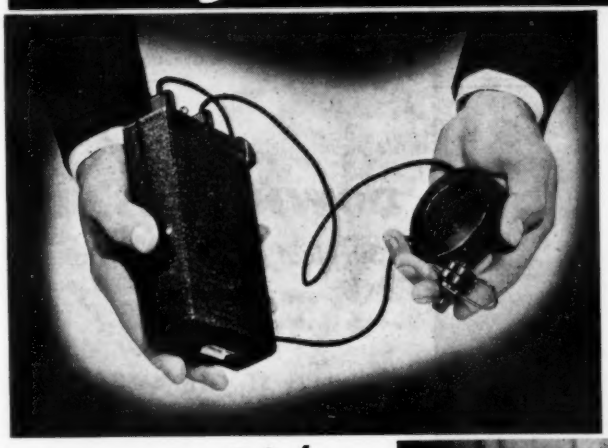

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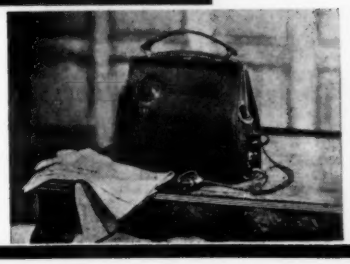

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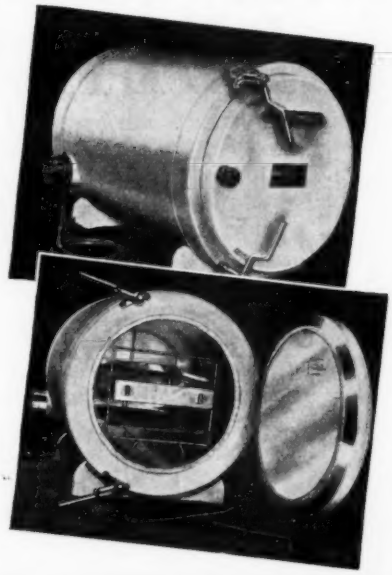

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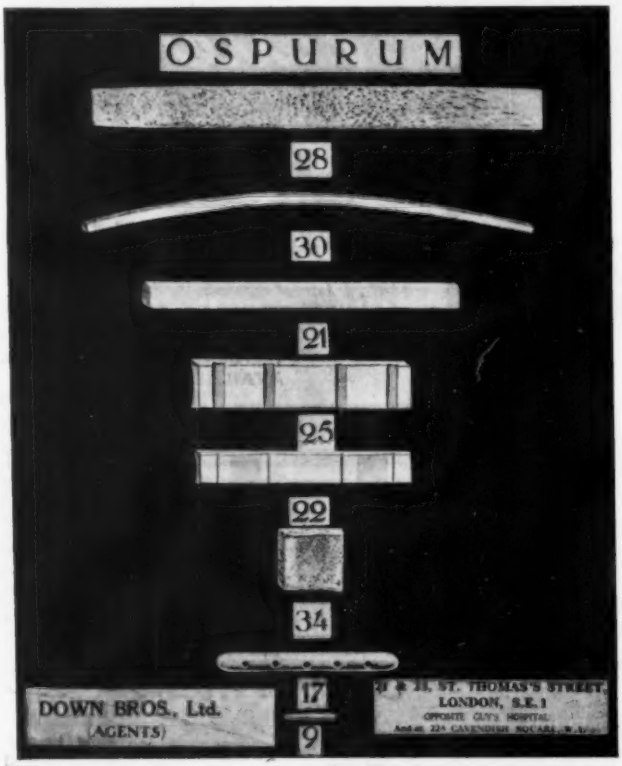


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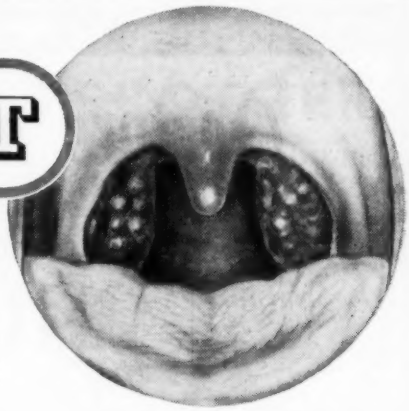

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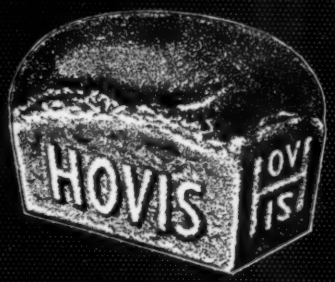


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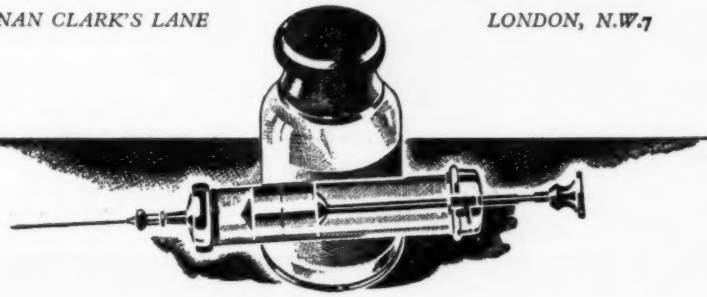

D.A.2

# CODOFORME
## BOTOL

Each tablet is equivalent to:-
CODeine - - - - - 1/11 grain.
BromOFORM - - - 4 minims.
Adjuvent Substances:-
Tinct. Belladonna - - 1 minim.
Tinct. Aconite - - 1 minim.

**AN ABSOLUTELY SAFE METHOD OF USING BROMOFORM IN THE TREATMENT OF COUGH**

Adults - - - - - - - 3 tablets daily.
Children - - - - - - - 2 tablets daily.

CONTINENTAL LABORATORIES LTD.
30 Marsham Street — LONDON, S.W. 1.

*An effective safeguard against winter ailments*

By reason of its accurately-measured content of Vitamins A $B_1$ $B_2$ and D Radio-Malt provides a perfect medium for the administration of these vitamins in balanced amounts; its daily use during the winter months ensures an effective safeguard against attacks of infective organisms.

# RADIO-MALT

(Standardised Vitamins A $B_1$ $B_2$ and D)

*Sample on request*

THE BRITISH DRUG HOUSES LTD.
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RM/S/369

# NOVASORB

brand

## Magnesium Trisilicate Evans

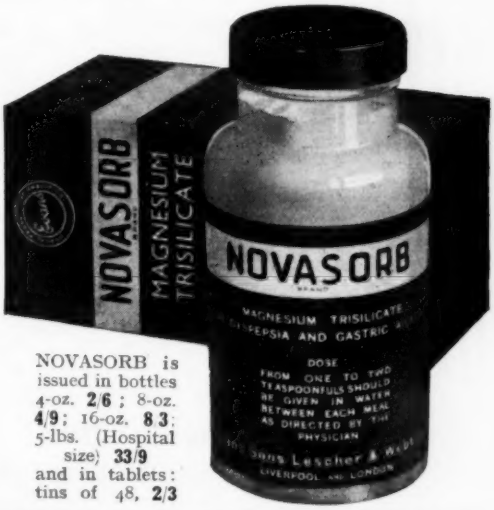
For the treatment of hyperacidity of the stomach

**Indications**

In conditions of dyspepsia, hyperacidity and ulceration of the gastro-intestinal tract, and also for the adsorption of intestinal toxins, destructive ferments or food poisons.

Novasorb does not produce alkalosis, nor does it interfere with the peristaltic function with the exception of a slight laxative effect in some cases.

DOSAGE: *Approximately one teaspoonful, modified according to the necessities of each case. Overdosage is not harmful.*




NOVASORB is issued in bottles 4-oz. **2/6**; 8-oz. **4/9**; 16-oz. **8/3**; 5-lbs. (Hospital size) **33/9** and in tablets: tins of 48, **2/3**

**Evans Sons Lescher & Webb Ltd.**
**Liverpool and London**

# RELIABLE PREPARATIONS

## CREODYNE

**(DUNCAN)**

A palatable preparation of Lacto - Creosote, Codeina, Aconite, &c., specially suited for affections of the respiratory organs—Chronic Bronchitis, Coughs, Catarrh, &c., &c.

Duncan

## MIST. VALERIAN SEDAT.

**(DUNCAN)**

A well-blended preparation of Scotch-grown Valerian in combination with Bromide, Hyoscyamus, &c. Indicated in the treatment of Hysteria or whenever a nerve sedative is required.

**In bottles of 4, 8, and 16 fluid ounces.**

***Samples on application.***

# DUNCAN, FLOCKHART & CO.

**EDINBURGH AND LONDON**

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# Alphidine and Pancreatin

In the Treatment of

## Graves' Disease

**Palatinoid No. 3211, O.S. & Co.** with **Pulverette 'Alphidine,' O.S. & Co.**

Pancreatin, gr. 5.
One thrice daily, before meals

Equals Iodine, gr. ½.
One twice daily, between meals, on two or three days each week

For full particulars see B.M.J., Oct. 2nd, 1937, p. 660.

**Oppenheimer Son & Co. Ltd.**
**Handforth Laboratories, Clapham Road, LONDON, S.W.9**

GLANOID

# PROETHRON FORTE 1 : 100

AN EXTREMELY CONCENTRATED LIVER LIQUID OF HIGH PURITY FOR PARENTERAL ADMINISTRATION.

THE HIGH CLINICAL POTENCY OF THIS SOLUTION ENABLES LARGE DOSES OF ANTI-ANÆMIC FACTOR TO BE GIVEN IN A MUCH REDUCED VOLUME AT LESS FREQUENT INTERVALS.

EACH C.C. OF PROETHRON FORTE CONTAINS THE ERYTHROPOIETIC PRINCIPLE DERIVED FROM 100 GRAMS OF FRESH LIVER.

SUPPLIED IN 5 c.c. RUBBER CAPPED VIALS

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TRADE MARK

## ORAL COLD VACCINE

**FOR PROPHYLACTIC IMMUNISATION TO RESPIRATORY INFECTIONS AND PARTICULARLY TO THE COMMON COLD**

'ENTORAL' IS AN IMMUNISING ANTIGEN WHICH, WHEN GIVEN ORALLY, WILL PRODUCE HETEROPHILE ANTIBODY IN SUFFICIENT AMOUNTS TO INCREASE MATERIALLY THE RESISTANCE OF INDIVIDUALS TO RESPIRATORY INFECTIONS. ISSUED IN PACKAGES OF 20 AND 60 'PULVULES' BRAND FILLED CAPSULES

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*Telephone: GERrard 2144.*

*Distributing Agent in Britain for*

**ELI LILLY AND COMPANY, INDIANAPOLIS, INDIANA, U.S.A.**

# For Chilblains

Calcium is a proved method in the treatment of chilblains, and 3 tablets of 'Kalzana' thrice daily and local symptomatic treatment will have the desired result in this condition. Prophylactically, 6 tablets of 'Kalzana' daily for 4 to 5 weeks, with intervals of 3 to 4 weeks between each treatment, from October to April, can be prescribed with confidence. 'Kalzana' ensures perfect calcium retention, as the oxidation of its sodium-lactate into sodium-carbonate favours normal blood alkalinity.

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# Kalzana

*Regd. Trade Mark*

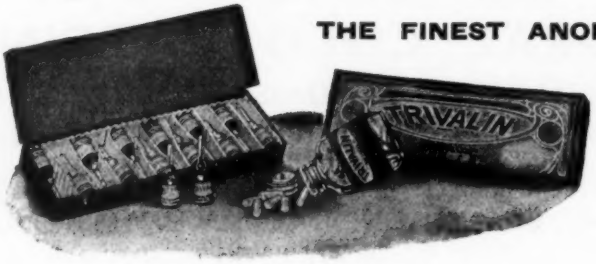
BRAND OF CALCIUM-SODIUM-LACTATE

THERAPEUTIC PRODUCTS LTD. (Dept. L.34). AINTREE ROAD, PERIVALE, GREENFORD, MIDDLESEX.

# TRIVALIN

**THE FINEST ANODYNE**

*In ampoules for injection, capsules and Tablets*




*Supplied solely to the Medical Profession*

***Extracts from Clinical Reports:***

**Cancer.** "I have used Trivalin with most satisfactory results in Carcinoma of the Mamma. No preparation I have tried, including Morphia (which produced vomiting) gave so much relief."

"I consider the addition of Hyoscine valuable in Morphia suppression, and have found the combination valuable in hysterical frenzies and other forms of mental excitement."

"I shall continue to use it when Morphia is indicated, and particularly when Morphia-action is indicated but Morphia itself contra-indicated."

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Immediate relief from the discomforts of nasal congestion due to head colds, catarrh and hay fever, can be obtained from the use of 'Endrine,' which promotes nasal ventilation and sinus drainage.

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**NASAL COMPOUND**

*Samples gladly sent on request to*

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Distributors for Petrolagar Laboratories Ltd.

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## OVARIAN FOLLICULAR HORMONE

A standardized preparation of the ovarian follicular hormone for intensive ovarian therapy by hypodermic injection.

Indicated in the treatment of scanty menstrual flow, amenorrhea and the vasomotor and nervous symptoms of the menopause.

*Boxes of 6 1-cc. ampoules*

2000 *international units in oil*

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# HOW IMPORTANT

## ARE MINERALS IN THE DIET?

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They are absolutely essential for the maintenance of an adequate state of nutrition. However, not infrequently an apparently minor mineral deficiency may weaken the body's defensive mechanism to such a point that

**Pregnancy, Infection, or any other unusual tax**

may lead to a prolonged period of convalescence.

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**Compound Syrup of Hypophosphites**

TRADE **"FELLOWS"** MARK

**CONTAINS THE DEFICIENT MINERALS!**

Samples on request

**FELLOWS MEDICAL MANUFACTURING CO., Ltd.**

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# ANTIBACSYN

**COLDS—**

**INFLUENZA—**

**PNEUMONIA**

1. It is **safe**.
2. Ready for immediate use.
3. Will attack **all endotoxic** infections.
4. **Not affected by sulphur compounds.**
5. Creates a **leucocytosis** and raised **opsonic index.**
6. **British,** having been supplied to the Profession for 8 years.

25 cc. Bottles .. .. **14/5** net.

*The Laboratories of*

**ANTIBODY PRODUCTS LTD.**

**WATFORD, HERTS.**

Phone: 4708 WATFORD

# High Blood Pressure Metabolic Disorders and the Anaemias

## constitute a "tripod" of Modern Disease

*By dilating the peripheral blood vessels*, Dr. Buergi's preparation of chlorophyll ('Phyllosan' tablets) becomes a therapeutic weapon in the treatment of high blood pressure. As it also *augments the force of the heart beat*, the circulation is adequately maintained.

*By stimulating the metabolic exchanges*, Dr. Buergi's preparation exercises a *revitalizing* effect upon the human organism. The lay expression "*vitality*" has received a technical rechristening in the term "*metabolism*."

To speed up the latter is to renew the former. Bodily sluggishness and mental retardation are nowadays linked up with low basic metabolic rates—as for example, in myxœdema.

Finally, by reason of its chemical affinities to hæmoglobin and its "catalyst" action, chlorophyll is able to *stimulate the blood-forming apparatus*. The indications for the use of 'Phyllosan' tablets in anæmic conditions are soundly rooted in laboratory tests and abundantly confirmed in the clinic.

**Members of the Medical Profession are invited to apply for Free Trial supply of 'Phyllosan' tablets**

and for a pamphlet entitled
"Hyperpiesia, Metabolic Disorders and the Anaemias,"
a Review of Experimental and Clinical Evidence for the use of

# 'PHYLLOSAN'

BRAND TABLETS

## in Modern Therapeutics

NATURAL CHEMICALS LTD., 12 CLIPSTONE STREET, LONDON, W.1

# VEGETABLE PURÉES IN PEDIATRICS

## *A solution to the problem of home preparation*

THE markedly improved nutrition and successful tolerance by infants to strained vegetables and fruits is rapidly securing a universal popularity for this dietary.

In theory there is no more desirable way of meeting systemic acidity, nutritional anaemia and supplying dietary bulk for intestinal residue in a non-irritant form.

In practice, however, defects in the home preparation of purées retard or defeat the end in view. The vegetables used are not fresh, overmuch water or boiling in uncovered kettles reduces the mineral and vitamin content, and coarse sieving allows harsh fibre to pass.

| | |
|---|---|
| PROTEIN | 4·8 |
| CARBOHYDRATES | 8·8 |
| CALCIUM | 0·012 |
| PHOSPHORUS | 0·083 |
| IRON | 0·0016 |
| VITAMIN A. | GOOD |
| VITAMIN B. | V.GOOD |
| VITAMIN C. | V.GOOD |
| VITAMIN G. | FAIR |
| CALORIES PER OZ. | 17·0 |

*A typical example of the high nutritive values retained in Heinz Strained Foods. (Figures show percentages on the wet basis)*

In consequence there is a growing demand on the part of physicians and mothers for such a product that shall have the highest possible nutritive value, and complete uniformity. Their attention having been drawn to this, the H. J. Heinz Company decided that here was a legitimate extension of their services in view of their wide buying resources and long experience in the preparation of foods.

This company is accustomed to buying vegetables in those regions where they grow best, and to dealing with them within a few hours of their harvesting at the correct season of the year. This last is, of course, highly important.

The best factory practice is inevitably better than home preparation, however careful. After scrupulous cleaning, for example, vegetables are cooked in the Heinz factories under light steam pressure with exclusion of air until just soft enough to be comminuted by extrusion and cutting. The whole process is so regulated that the juices of the vegetables are retained throughout, there are no mechanical losses of mineral salts, vitamins or other soluble nutrients, and the resulting purée is adjusted to the proper consistence for satisfactory marketing.

Before filling and sealing, the product is subjected to a process for the removal of any absorbed air, and sealing takes place *in vacuo*. Finally, the sealed containers are immediately sterilised under known conditions of time and temperature. By these means are secured the high nutritional qualities, uniformity and convenience that physician, mother and patient desire.

*NOTE.—Heinz Strained Foods are not packed in glass, for it has been found that light has an adverse action on vitamin content and palatability.*

# HEINZ
# STRAINED FOODS

★ ***Fully explanatory literature and samples gladly sent on request. Or if desired a special representative will be happy to call.***

SPINACH
TOMATOES
CARROTS
VEGETABLE SOUP
PEAS
GREEN BEANS
MIXED GREENS
BEETS
PRUNES
CEREAL
APRICOTS and APPLE SAUCE
BEEF & LIVER SOUP

H. J. HEINZ COMPANY LIMITED, HARLESDEN, LONDON, N.W.10

# *CHOCOLATE FOR DIABETICS*

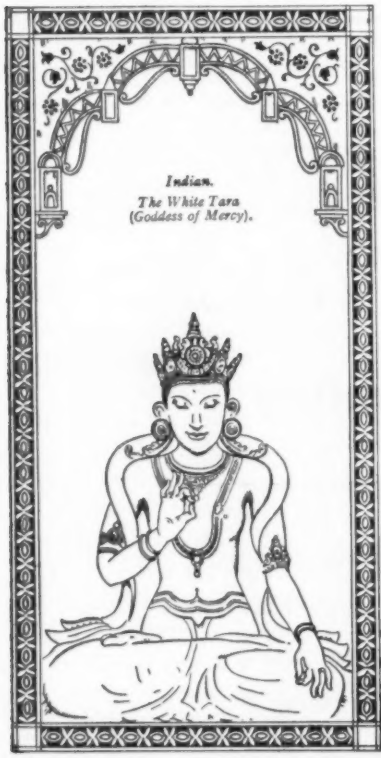
## *—a misunderstanding*

There has been some confusion regarding Cadburys Special Chocolate and their Fine Dessert Chocolate. Many people have gained the impression that the latter is equally suitable for diabetics. But this is not the case. 'Fine Dessert' is a normal chocolate of the 'less sweet' type, and all chocolates of this kind contain sugar. Special Chocolate is Sugar Free and therefore a suitable addition to the dietary of diabetics.

★ ★ ★

*Further details and analysis with a sample of this Special Chocolate will be gladly forwarded to any member of the medical profession. Please write to the Bournville Laboratories, Bournville.*

**CADBURY BROS · BOURNVILLE · ENGLAND**




# "ALOCOL"

## Colloidal Hydroxide of Aluminium

## Improved Antacid Therapy

SODIUM BICARBONATE, bismuth salts and other time-honoured antacids having each proved to possess individual disadvantages, an agent such as "Alocol" which combines the best therapeutic features of these with intrinsic merits of its own, must be of interest to the physician.

"Alocol" is a powerful antacid agent which forms with the stomach contents a colloidal jelly with the power of adsorbing free hydrochloric acid, thus fixing it and eliminating it from the system. It has a remarkably soothing effect on the inflamed or irritated gastric mucosa and is, therefore, rapidly effective in relieving pain. Being non-absorbable "Alocol" is free from any risk of "alkalosis."

"Alocol" can be prescribed with confidence in all cases where alkaline therapy is indicated. Issued in tablet and powder form.

*Complete chemical history of "Alocol," with convincing clinical reports and supply for trial sent free to physicians on request.*

**A. WANDER, LTD., Manufacturing Chemists,**
**184, Queen's Gate, London, S.W.7.**
***Works: KING'S LANGLEY, HERTFORDSHIRE.***

M257

# For Effective Control of Pain

AMONG the many and diverse analgesics which have been evolved by modern chemical research, acetyl-salicylic acid retains its reputation as one of the safest and most effective. Its tendency to liberate salicylic acid—the irritant properties of which are well known to physicians—has, however, caused many to hesitate to employ it as widely as it deserves. Exhaustive trial in hospital and private practice proves that "Alasil" definitely solves the problem of administering acetyl-salicylic acid in an effective form, being free from the risk of irritating the stomach or bowels or of causing general reactions.

*A supply for clinical trial with full descriptive literature sent free on request.*

In "Alasil" the desirable therapeutic effects of acetyl-salicylic acid are well exhibited by its calcium acetyl-salicylate moiety, while the presence of "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid, obviates any tendency to gastric irritation. The superior absorbability of "Alasil" over ordinary salicylate compounds and its freedom from the risk of liberating free salicylic acid in the stomach have been well proved by careful experimentation. "Alasil" can be prescribed with perfect safety to patients of all ages and in larger doses than ordinary salicylate compounds.

A. WANDER, LTD., Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
*Laboratories and Works:* KING'S LANGLEY, HERTS.

# ALASIL

M268

# A thorough investigation

*(reported in "The Analyst," 1936, Lxi, 310.)*

# could find no tea on the market which was free from tannin

*The following facts about tea and tea tannin have been established by recent clinical and laboratory experiment:—*

[A] Tea as normally drunk is harmless and has no ill effects whatever on the human body. The amount of caffeine and tea tannin in tea is pharmacologically small.

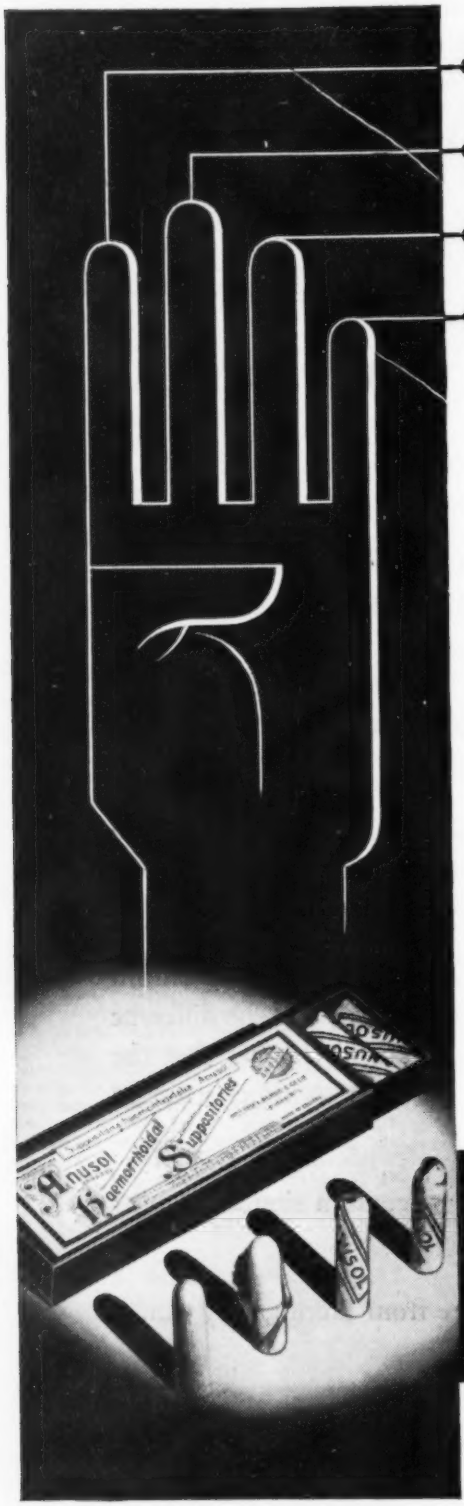
[B] Tea tannin is a different substance from the tannic acid of the Pharmacopœia, which is a Pyrogallic tannin, and the two should not be confused.

[C] Clinical experiments have shown that the action of tea tannin is very much milder than that of tannic acid, and the different composition of the two tannins is proved by the fact that the tannic acid of the Pharmacopœia is about 25 times stronger as an acid than tea tannin.

[D] Many common beverages besides tea contain similar tannins and in comparable amounts.

[E] If there were any teas completely free from tannin, they would be almost entirely tasteless.

ISSUED BY THE INTERNATIONAL TEA MARKET EXPANSION BOARD LTD




# FOUR POINTS IN HÆMORRHOIDAL THERAPY

The well-recognized value of ANUSOL Suppositories in the medical treatment of hæmorrhoids is the result of a fourfold therapeutic effect :—

1 **PAIN IS RELIEVED**—not by the use of opiates or local anæsthetics but by reducing congestion and thus relieving pressure.

2 **CONGESTION IS REDUCED**—The emollient, protective and mildly astringent action of Anusol prevents irritation of the affected parts.

3 **BLEEDING IS CONTROLLED**—not by means of vaso-constrictors or strong styptics but by reducing congestion and consequent tension.

4 **CONSTIPATION IS RELIEVED**—The Anusol base soon melts at normal rectal temperature, softening the hardened fæces, thereby making evacuation easy and less painful.

These desirable qualities distinguish Anusol Suppositories and assure their efficacy in treatment.

Anusol is also available in ointment form in collapsible tube with nozzle.

***Supplies for clinical trial sent on request.***

ANUSOL BRAND
HÆMORRHOIDAL SUPPOSITORIES

WILLIAM R. WARNER & Co LTD.
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# MODERN COD LIVER OIL AS THE METHOD OF CHOICE FOR ADMINISTERING VITAMINS A and D

**In view of the widely divergent opinions expressed concerning the dosage and vitamin content of various liver oils, the proprietors of 'SevenSeaS' cod liver oil wish to remind the medical profession that on January 1st, 1936, the British Pharmacopœia Commission laid down not only a definite dosage, but also a definite standard of vitamin content for cod liver oil.**

The dosage was fixed at a minimum of 15 minims (a quarter teaspoonful) three times a day, and the vitamin content was standardised at not less than 600 International Units of Vitamin A and not less than 85 International Units of Vitamin D per gramme.

In 'SevenSeaS' Standard Oil, the practitioner has at hand a cod liver oil of the highest quality, fresh, easily digestible, and with a uniform vitamin content guaranteed to conform to the standard of the British Pharmacopœia. The oil is rendered from the livers at sea as soon as the fish are caught (a process impossible with any other fish liver), instead of waiting until the ship is back in port and the livers consequently stale. The high quality of 'SevenSeaS' cod liver oil, and the uniformity of its vitamin content arising from its method of preparation make it possible to prescribe only small doses which cannot give rise to acidosis.

These attributes are still further increased in the case of 'SevenSeaS' High Potency cod liver oil which is guaranteed to be four times as rich in vitamin values as the standard oil of the Pharmacopœia. *With this oil available the practitioner who wishes to prescribe a particularly small dosage has the advantage of using a fresh cod liver oil without going far in excess of the standards laid down by the Pharmacopœia regarding vitamin content.*

This High Potency Oil is not reinforced or in any way treated to increase the vitamin content. It is simply pure, natural oil obtained by selection from the richest livers on the best fishing grounds.

All 'SevenSeaS' cod liver oil is tested and packed in strict conformity with British Pharmacopœia requirements.

Samples of the High Potency Oil, the Standard Oil, and the High Potency Oil in Capsules, will be supplied on request.

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD. · ST. ANDREW'S DOCK · HULL · ENGLAND

Probably 70% of all cases of
lobar pneumonia can be treated with—

# ANTIPNEUMOCOCCIC SERA

TYPES 1, 2, 4, 5, 7 AND 8

WITH A RESULTANT SAVING of over 4,000 lives annually in England and Wales.

IN RECENT YEARS an average of 10,000 deaths per year have been attributed to lobar pneumonia alone.

Calculating from the known relative frequencies of the individual pneumococcus types, and from the mortality rate when no serum is given, 22,500 cases and 6,700 deaths are caused by Types 1, 2, 4, 5, 7, or 8, pneumococci.

19 out of every 31 deaths can be avoided* by adequate specific serum therapy, administered during the first four days of illness; in other words, more than 4,000 of these deaths are preventable.

Potent, refined and concentrated "Antipneumococcic Sera *Lederle*" are available in the following packages:

Bivalent Types 1 and 2, Bivalent Types 4 and 8, Bivalent Types 5 and 7, Monovalent Type 1 and Monovalent Type 2.

A survey of the literature indicates that the types enumerated here are responsible for more than 70% of all cases of pneumococcic infection, no matter how manifested (lobar or bronchial pneumonia, empyema, etc.).

*Horsfall, F. L., Canadian Pub. Health J.; October, 1937.

**A Product of *Lederle* Laboratories Inc., NEW YORK, distributed in England by:—**

Chas. F. Thackray LTD

The Old Medical School, LEEDS. *Telegrams and Cables* "Aseptic Leeds." *Telephone* 20085 (3 lines).
252 Regent Street, LONDON, W.1. *Telephone Telegrams and Cables* "Regent 1884 London."

*Agents for Eire*
WILCOX JOZEAU & CO.
19 Temple Bar, Dublin

# In Asthenic States

Possibly the most interesting clinical application of 'Benzedrine' Brand Tablets (β-amino*iso*propylbenzene sulphate) is with that ill-defined group of non-psychopathic cases with persistent functional symptoms of apathy, weakness, exhaustion, and undue fatigability.

When these patients fail to respond to rest and the usual methods of treatment, 'Benzedrine' Brand Tablets are often particularly helpful.

A sample of 'Benzedrine' Brand Tablets together with the most recent literature on the treatment of such asthenic conditions will be sent to any interested physician on request.

"From the evidence which has so far accumulated, Benzedrine does not appear to be toxic in usual doses nor does it seem to be habit forming."
*Jour. Amer. Med. Assoc.*, 109:549, 1937.

## 'BENZEDRINE'
BRAND
## TABLETS

**Each tablet contains 5 mg. β-amino*iso*propylbenzene sulphate (Isomyn sulphate).**

Distributed by

**MENLEY & JAMES, LTD., 64, HATTON GARDEN, LONDON, E.C.1**

**for Smith, Kline & French Laboratories, owners of the Registered Trade Mark, 'Benzedrine.'**

# FOR COUGHS

*Acts to Liquefy Bronchial Mucus*
*Produces Distinct Sedative and Antispasmodic Effects*

Syrup Calcidrine (Abbott) offers, in an unusually palatable and well-tolerated combination, an effective cough sedative with distinct antispasmodic properties. The high iodine content of the preparation, as represented in calcium iodide, distinguishes it from the usual demulcents and expectorants. ● Clinical experience has shown the value of certain combinations of iodine and calcium in the treatment of colds, including simple throat and bronchial infections of an acute and subacute nature. The iodides are often used to liquefy bronchial mucus and thus to facilitate its removal. ● The combined effects, therefore, of iodine and calcium, with the antispasmodic action of Ephedrine and the sedative action of Nembutal, can be utilised to great advantage in the treatment of acute and subacute bronchial infections, especially where night cough prevents proper rest and sleep. ● Syrup Calcidrine (Abbott) is supplied in 4-ounce, 16-ounce and 80-ounce bottles. Descriptive literature and a trial sample will be sent upon request.

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# SYRUP CALCIDRINE
BRAND
*Abbott*

Send literature and sample of Syrup Calcidrine to

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ADDRESS _____

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# THE HEPATEX SERIES
## OF LIVER EXTRACTS

**The name Hepatex associated with liver extracts guarantees the highest known potency.**

## HEPATEX (oral)

A highly concentrated liver extract containing, in one fluid ounce, the equivalent of a pound of fresh liver. Hepatex is palatable and readily assimilated.

*In bottles of 4-oz. 12/6*

## NEO-HEPATEX (parenteral)

For pernicious anaemia.

The world-wide experience of Neo-Hepatex has proved that no other liver extract surpasses it in potency. Each batch is clinically tested. A copy of the hospital chart accompanies every package.

*Issued in ampoules 6 × 1 cc. 5/3, 6 × 2 cc. 8/-, 3 × 4 cc. 7/-, and in bottles of 10 cc. 6/-*

## HEPATEX-T (intramuscular)

For nutritional macrocytic anaemias.

Hepatex-T provides the specific factors which are necessary to re-establish healthy blood generation in deficiency anaemias.

*Issued in ampoules 6 × 2 cc. 9/6 and in bottles of 10 c.c. 6/6*

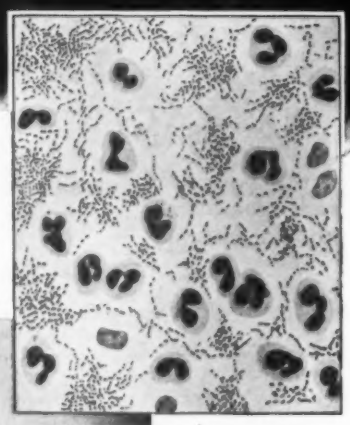
Products of

**THE EVANS BIOLOGICAL INSTITUTE**

# Evans Sons Lescher & Webb Ltd.

**Liverpool and London**

# HAEMOLYTIC STREPTOCOCCAL INFECTIONS....



- STREPTOCOCCAL SEPTICAEMIA
- PUERPERAL SEPSIS
- ERYSIPELAS
- EMPYEMA
- SCARLET FEVER
- OTITIS
- MASTOIDITIS ETC.

# RUBIAZOL

**CARBOXY-SULFAMIDO-CHRYSOIDINE**

TRADE MARK

- HIGH ACTIVITY AT LOW DOSAGES
- NO CLINICAL MANIFESTATIONS OF TOXICITY
- FOR PROPHYLAXIS AND TREATMENT
- MORE ACTIVE ORALLY THAN BY INJECTION
- PER ORAL NO PRACTICAL COLORATION OF URINE

**CLINICALLY THE MOST ACUTE CASES RESPOND To 2 GRAMMES (30 GRAINS) PER DAY ADMINISTERED ORALLY**

Tubes of 20 TABLETS at 0.20 gramme (3 grains), Boxes of 5 AMPOULES of 5 cc. (5% solution INTRAMUSCULAR) and clinical packings.

*Literature and Samples on request*

*Supplied by*

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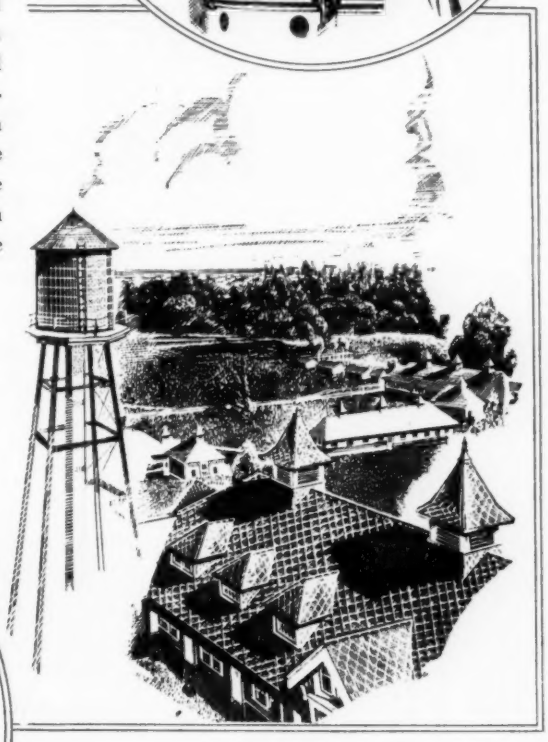
# PROGRESS IN Biological Therapy

**Biological investigation was commenced by Parke, Davis & Company forty years ago. In 1898 the firm produced the first 2000-unit per c.c. diphtheria antitoxin ever obtained. Biological work developed so extensively that, soon after, a biological farm was established for the production of serums, antitoxins, etc., and from that time Parke, Davis & Company have built up a reputation for biological products that is without equal. Progress in this department of medicine is active, and constant study is directed towards the elucidation of the many problems relating to serum production; e.g., improvements in culture media, reduction of protein content and volume of dose of antitoxins. The introduction of an active meningococcus antitoxin is one of the firm's recent achievements.**



**PARKE, DAVIS & CO.**
**50, BEAK STREET**
**LONDON, W.1**

*Laboratories: Hounslow, Middlesex.*
*Inc. U.S.A., Liability Ltd.*

# After Influenza Pneumonia and other Acute Infections

● The general action of 'Bynin Amara is manifested by increased tone of the nervous, muscular and cardio-vascular systems. It stimulates the digestive organs, improves the flagging appetite, corrects anæmia and aids nutrition generally.

● The marked asthenia and nervous depression which are prominent features of the post-influenzal state, yield rapidly to its influence. A course whenever there is any indication of lowered resistance is a valuable safeguard against infection.

In bottles at 2/-, 3/6, 6/6 and 12/-

*Descriptive literature and clinical trial sample on application.*

*the effective tonic is*

# 'BYNIN' AMARA

**Allen & Hanburys Ltd., London, E.2**

Telephone: 3201 Bishopsgate (12 lines)

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The Lister Institute
OF PREVENTIVE MEDICINE

Therapeutic Substances Act, Licence No. 9

## Concentrated

# Anti-Meningococcus Serum (Group II)

**(Globulin Solution)**

The serum therapy of infections caused by group II organisms is often less successful than the specific treatment of group I infections due to types 1 and 3, which are usually associated with epidemics of cerebrospinal fever. Accordingly, a group II serum has been specially prepared at the Serum Department of the Lister Institute. This serum has been subjected to a process of concentration so that a large proportion of the inactive proteins has been removed; the dose of antibody is thus contained in a smaller volume of fluid.

**Three preparations are issued in concentrated form:**

**(1) Anti-meningococcus serum (multivalent)**
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**Anti-meningococcus Serum for Diagnostic Purposes**

*Particulars with regard to these sera are obtainable from*

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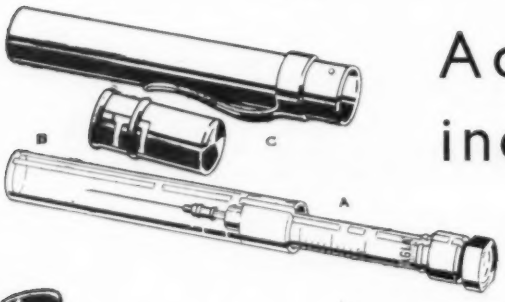
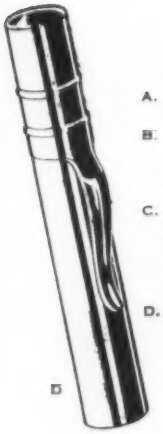
# 'AGLA' SYRINGES

TRADE MARK BRAND




## Acceptable and inexpensive gifts




Outfit consists of:—

A. 'Agla' syringe with rustless steel needle.

B. Glass spirit-tight container from which spirit cannot evaporate or leak.

C. Nickel-plated metal carrying case. Fits the pocket like a fountain-pen.

D. Complete outfit with pocket-clip ready for carrying in waist-coat pocket or bag.

## TRADE MARK 'AGLA' BRAND SYRINGE

### IN SPIRIT-TIGHT CONTAINER

Syringe and spirit-tight container are constructed entirely of glass. The whole enclosed in a nickel-plated metal pocket-case for convenience and safety. Their precision is remarkable, each syringe is tested, before release, for accuracy of graduation and absence of back-leak.

*Three-piece Syringe*, 1 *c.c.*/20 *min.*, **17/6**
*Detachable pocket-clip*, **1/0** *extra*
*Two-piece Syringe*, 5 *c.c.*, **22/6**; 10 *c.c.*, **30/0**
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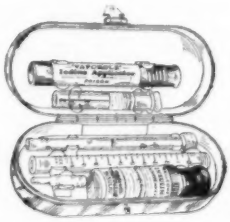
*Three-piece Syringe*, 2 *c.c.*, **25/-**

*London Prices to the Medical Profession*

A common-sense gift for a diabetic patient

## TRADE MARK 'WELLCOME' BRAND INSULIN POCKET-CASE, No. 46

*London Price to the Medical Profession* **22/6** *each*



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TRADE MARK **'TABLOID'** BRAND

# SULPHONAMIDE-P

(SULPHANILAMIDE)

## A DEPENDABLE PRESENTATION OF A NOTABLE THERAPEUTIC AGENT

All the accepted chemotherapeutic properties of the drug are combined with the characteristics of purity, precision and dependability for which 'TABLOID' Products are notable.

Clinical evidence is available of the usefulness of Sulphonamide-P (Sulphanilamide) in streptococcal, meningococcal, gonococcal and urinary tract infections.

*For Oral Use*

TRADE MARK **'TABLOID'** BRAND

**SULPHONAMIDE-P**

**0·5 GRAMME** Bottles of 25 products, **1/4**
Bottles of 100 products, **4/-**

ALSO AVAILABLE

*For Parenteral or Oral Use*

TRADE MARK **'WELLCOME'** BRAND

**SULPHONAMIDE-P**

Bottles of 25 grammes, **1/9**; and 100 grammes, **5/6**

*London Prices to the Medical Profession*

*Literature on request*

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# A Complete Series for VITAMIN THERAPY

PRODUCTS OF THE GLAXO LABORATORIES

GL

| Vitamin | PRODUCT | DESCRIPTION | Potency | PRICE |
|---|---|---|---|---|
| A | **Prepalin** | Vitamin A in high concentration for oral use in conditions where marked deficiency of the vitamin indicates intensive treatment. | *Capsule,* 24,000 *i.u.* *Liquid,* 1 *c.c.* 72,000 *i.u.* | *Capsules - boxes of* 25, 3/9 ; 100, 12/6 ; *tins of* 1,000, 80/-. *Liquid in* 8 *cc. phials,* 3/6. |
| A | **Parenteral A** | For all cases of vitamin A deficiency, but especially where absorption of the vitamin from the gastro-intestinal tract is inefficient. Given by intramuscular injection. | *Ampoule,* 1 *cc.,* 100,000 *i.u.* | *Ampoules in boxes of* 6 × 1*cc.,* 7/6 ; 12 × 1 *cc.,* 12/6. |
| B | **Vitamin $B_1$ G.L.** | Aneurin in sterile aqueous solution for injection, and in tablets for oral use. For neurological disorders, gastro-intestinal diseases and all cases where the diet needs a vitamin $B_1$ supplement. | *Tablet,* 500 *i.u.* *Ampoule,* 1 *cc.,* 1,000 *i.u.* | *Ampoules in boxes of* 6 × 1*cc.,* 7/6 ; 12 × 1*cc.,* 14/- ; 50 × 1*cc.,* 50/-. *Tablets in bottles of* 25, 5/- ; 100, 16/-. |
| | **Nicotinic Acid** | For the parenteral or oral treatment of pellagra. | In 2*cc. amps. of* 50 *mgm.* *Tablets of* 50 *mgm.* | *Boxes of* 25 *tablets* 2/- ; 100, 6/8. *Ampoules in boxes of* 6 × 2 *cc.,* 5/- ; 12 × 2 *cc.,* 8/6. |
| C | **Celin** | Ascorbic acid in stable solution for treatment of hæmorrhagic disorders, delayed healing of wounds, and toxic diseases. In ampoules for parenteral use, and tablets for oral use. | *Ampoule,* 1 *cc.,* 100 *mgm.* *Tablet* 50 *mgm.* | *Ampoules, boxes of* 6 × 1*cc.,* 5/6 ; 12 × 1 *cc.,* 9/- ; 50 × 1*cc.,* 33/9. *Tablets, in bottles of* 25, 3/9 ; 100, 11/3. |
| D | **Ostelin Liquid** | Glycerin suspension of crystalline vitamin D (Calciferol G.L.), completely oil free and miscible with water. Tasteless and inodorous. Ensures assimilation of calcium mixtures. | *Liquid,* 1 *cc.* 5,000 *i.u.* | *In phials,* ½ *oz.,* 2/6 ; *Bottles,* 2 *oz.,* 7/6 ; 4 *oz.,* 12/6 ; 8 *oz.,* 22/6. |
| | **High Potency Ostelin** | For oral treatment when exceptionally large dosage of vitamin D is required—as in parathyroid tetany. Supplied in tablets. | *Tablet* 50,000 *i.u.* | *Bottles of* 25 *tablets,* 5/- ; 100, 17/6. |
| E | **Viteolin Capsules** | For treatment of spontaneous or threatened abortion. Each capsule contains unsaponifiable matter from 5 grams of wheat-germ oil at 30 times the concentration of the oil itself, with vitamin E content unimpaired. | *No Unit.* | *Boxes of* 25, 6/- ; 100, 21/- ; 500, 80/-. |
| P | **Hesperidin** | A flavone compound playing an important part in the regulation of vascular permeability of the capillary wall. In tablets for oral administration. | *Tablet* 0.25 *gm.* | *Bottles of* 50, 5/6. |
| A and D | **Adexolin** | Concentrate of vitamins A and D. Each cc. of liquid is equal to 20 cc. of standard medicinal cod-liver oil, and each capsule equal to 10 cc. Protective tonic for resistance to infection and in routine ante-natal care. | *Liquid* 1 *cc.* 12,000 *i.u. A.* 2,000 „ *D.* *Capsule,* 6,000 *i.u. A.* 1,000 „ *D.* | *In* ½ *oz. phials,* 2/6. *In bottles of* 2 *oz.,* 7/6; 4 *oz.,* 12/6; 8 *oz.,* 22/6. *Boxes of* 25 *capsules,* 2/6; 100, 7/6. *Tins of* 500, 30/6 ; 1,000, 56/-. |
| | **Dekadexolin** | A high concentrate of vitamins A and D for parenteral therapy where massive dosage is indicated. | *Ampoule,* 1*cc.,* 60,000 *Vit. A.* 10,000 „ *D.* | *Boxes of* 6 × 1 *cc., ampoules,* 7/6. 12 × 1 *cc.,* 12/6. |
| A, B C, D | **Ostomalt** | Fine malt extract (yielding vitamin B), with added vitamins A and D and orange juice (yielding vitamin C). A protective nutrient tonic, effective in teaspoonful dosage. | *Per fl. dm.,* *A.* 1,100 *i.u.* *C.* 15 *i.u.* *D.* 250 *i.u.* | *In jars,* ½ *lb.,* 1/9 1 *lb.,* 3/-, 7 *lb.,* 17/-. |

*Prices, not applicable in Eire, are subject to usual professional discount.*

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX BYRon 3434

# The nicest way of taking Halibut Liver Oil

HALIBORANGE presents Allenburys tasteless and odourless Halibut-Liver Oil, associated with additional vitamin D and Allenburys Orange Juice.

One teaspoonful of Haliborange is equivalent in vitamins A and D to one teaspoonful of cod-liver oil, and in vitamin C to two teaspoonfuls of fresh orange juice.

Haliborange is an excellent addition to the diet of babies as a precaution against rickets and scurvy. For older children, adolescents, or adults, it is a prophylactic vitamin tonic.

## Haliborange

Contains the natural vitamins A, C, and D

In 5, 10 and 40 oz. bottles.

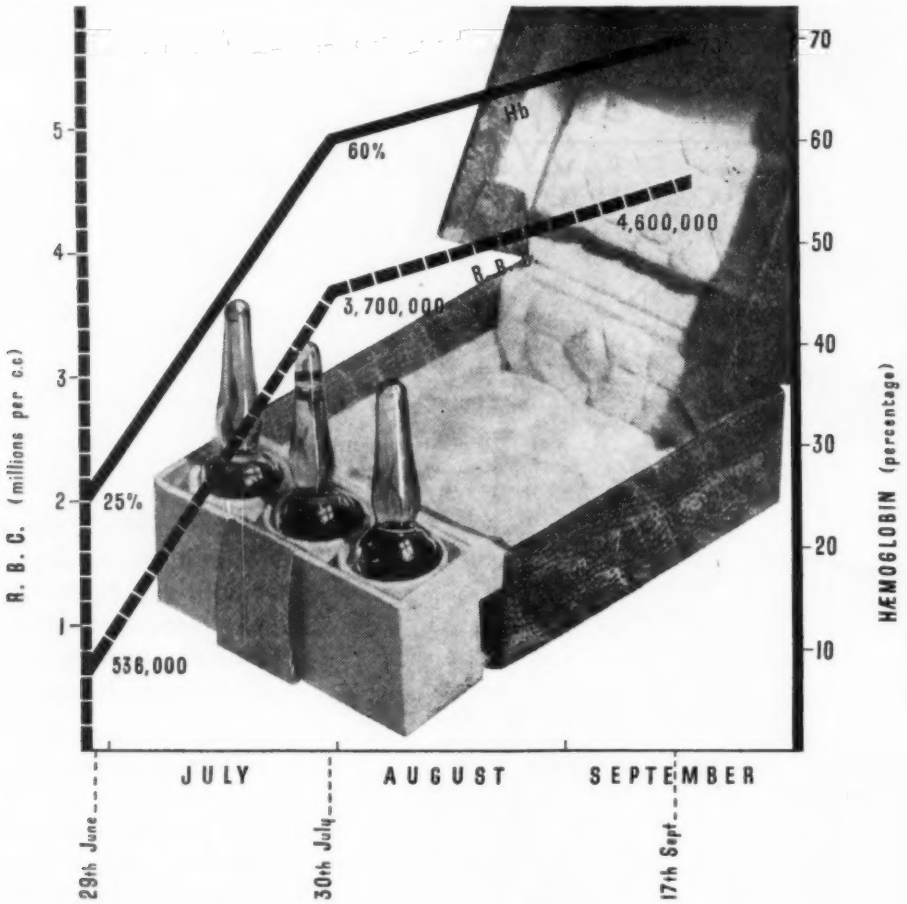
DESCRIPTIVE LITERATURE WILL BE SENT ON REQUEST.

## ALLEN & HANBURYS LTD., LONDON, E.2

Telephone: Bishopsgate 3201 (12 lines)

Telegrams: "Greenburys Beth London"


[*See also pp.* 9, 34, & 35.]




# ANAHÆMIN B.D.H.

*In the Treatment of Pernicious Anæmia*

The administration of Anahæmin in pernicious anæmia has become a routine as a result of the uniformly satisfactory results produced.

Such results are exemplified in a recent report in which it is stated that weekly injections of 2 c.c. of Anahæmin for one month produced an increase in red blood corpuscles from 536,000 to 3,700,000 and a rise in hæmoglobin from 25 per cent. to 60 per cent. At the end of a further six weeks' treatment it was found that the red blood count had risen to 4,600,000, and the hæmoglobin to 70 per cent. This increase in red blood cells from 536,000 to 4,600,000, was produced by a total dosage of 24 c.c. of Anahæmin.

*Sample on request*

THE BRITISH DRUG HOUSES LTD. LONDON N.1



An/S/52

# HEWLETT'S PREPARATIONS

**MIST. PEPSINÆ CO. c. BISMUTHO**
**(Hewlett's)**

Over 60 years' reputation as a useful remedy in Gastritis, Gastrodynia, Gastric Carcinoma and Dyspepsia, especially when Pyrosis is a conspicuous symptom and in all Diseases of the Stomach.

DOSE: Half to one drachm, diluted.
In 5, 10, 22, 40 and 90 oz. bottles.

**HEPATAGEN**
**(Mist. Hepatica Conc. Hewlett's)**

Composition: Cascara, Rhubarb, Jalap, Podophyllin, etc., with 1/20 gr. Cocaine in each drachm.

(Not under the Dangerous Drugs Act.)

An elegant and palatable general Aperient and Cholagogue specially recommended in cases of so-called "Biliousness," Hepatitis, and Chronic Gastritis.

Dose: Ten to sixty minims, diluted.
In 5, 10, 22, 40 and 90 oz. bottles.

# C. J. HEWLETT & SON, LTD.

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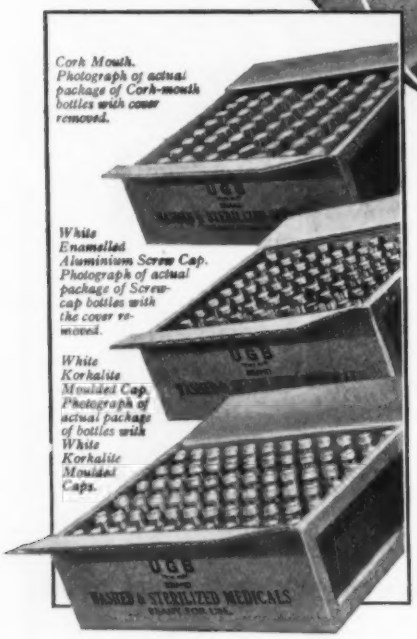
# *Another scientific achievement in medical bottle production*




At last the strong preference for a Medical bottle with a White moulded cap has been achieved by U.G.B. The cost obstacle has been overcome and U.G.B. technicians have produced a Medical bottle with a perfected White cap manufactured from Urea Powder—tasteless and odourless—fitted composition Cork Liners Resistol faced.

The Cork-mouth and White Enamelled Aluminium Screw Cap Washed and Sterilized services are unchanged.

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**UNITED GLASS BOTTLE MANUFACTURERS LTD**

*The Largest Manufacturers of Glass Bottles in Europe*

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# 'I'm no doctor,'

*says Mr. Therm*

## *'But I can help the doctors!'*

Mr. Therm, the well-known representative of the Gas Industry, has noticed what formidable obstacles the Medical Profession has to overcome in its work of making England healthier.

He has observed that long established human habits — even when they are a hindrance to health — are very hard to eradicate. For example, much illness is due to the fog and grime that foul the air of English cities. 70% of this 'aerial sewage' comes from *home* fires. Yet it is not easy to persuade people that they should give up their smoky, old-fashioned fires and help to clean the atmosphere and improve their own and other people's health by using gas and coke — the fires without smoke.

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*Specially designed for use in the treatment of* **Pneumonia, Bronchitis, Pleurisy** *and similar affections of the Chest and Lungs.*

Made from the superfine grade of "Gamgee" tissue, made exclusively by Robinsons of Chesterfield and reputed as the finest dressing for use in Thermal treatment. Invented by, and prepared exactly according to the direction of the late Sampson Gamgee, F.R.S.E., Consulting Surgeon to the Queen's Hospital, Birmingham. Made in six sizes. 9½d. to 3/-. Obtainable from all Chemists.

**"Gamgee Tissue"**
REGD. TRADE MARK

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**JACKET**

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**WARM, DRY BEDS** FOR OPERATION & ACCIDENT CASES

In cases of sudden emergency and for everyday use, the "Thermega" Electrically-Heated Blanket is invaluable for providing warm, damp-free beds. Hospitals and Nursing Homes throughout the country use "Thermega." **It is the one proven remedy for driving out dampness and ensuring warm beds at the turn of a switch.** The "Thermega" Electric Pad for local application is ideal for relief of all pain.

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**'Thermega'**
*Electrically Heated*
**BLANKETS & PADS**

*Blankets from 3 gns. Pads from 31/6. 3-temperature Blankets for medical use £8 10s.* Single-heat Blanket, specially strengthened, from £4 4s. Various sizes and prices on application.

Insist on "Thermega." It is vital that these appliances should be made by experienced manufacturers.

"An After-Fitting Service to meet changing Aural Conditions"

**OUR SERVICE TO DOCTORS AND THEIR DEAF PATIENTS!**

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IN prescribing "Ardente" for your deaf patients when an aid becomes necessary, you are safe because they can obtain service in most important towns throughout Great Britain—to meet any change in their aural condition. As an additional safety factor, each "Ardente" is covered by its maker's guarantee.

There are a full range of "Ardente" types—electrical and non-electrical, bone-conduction, granule, valve, and phantom—which are individually suited, after testing by Aurameter, to the needs of each case—no expense being incurred until hearing satisfactorily.

Particulars gladly sent and Tests are made at Aurists, Doctors' patients, Hospitals, or any of our addresses.
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10 MEDALS, 5 DIPLOMAS.
Supplied under National Health Insurance.

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**NUMBER 3**
EXTRA QUALITY VIRGINIA

50 FOR 3/4

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(SQUIRE) (SQUIRE)

The internal secretions of the Parathyroid Gland have been found to play an important part in the assimilation of Calcium in the tissues, and in consequence to exert a considerable influence on the nervous system.

Recent experiments have shown that Parathyroid insufficiency may be compensated by the oral administration of the Parathyroid substance.

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**In 4 oz., 8 oz., and 16 oz. Bottles** *Descriptive Leaflet Gratis on request*

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# LAXAROL

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CARDIAC STIMULANT VASODILATOR NON-MERCURIAL DIURETIC

EUPHYLLIN dilates the Coronary and Kidney Vessels, greatly increases the rate of flow of blood through the heart, and improves the mechanism of exchange between the blood and the tissues.

EUPHYLLIN is particularly suited to the treatment of CORONARY SCLEROSIS, ANGINA PECTORIS, and DEGENERATION OF THE CARDIAC MUSCLE.

AMPOULES TABLETS SUPPOSITORIES

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# 1938

# BONUS YEAR

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*Vapo-Cresolene*

*(specially prepared cresols of coal tar)*

a penetrating and sedative antiseptic when vaporized, has demonstrated its value for over half a century for the paroxysms of **Whooping Cough,** the dyspnœa of spasmodic **Croup** and bronchial **Asthma,** cough in **Broncho-Pneumonia** and for **Bronchitis.**

*LITERATURE ON REQUEST*

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Lamp type Vaporizer

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**IN VARIOUS SIZES from 1/6**

*THE NATURAL MINERAL WATERS OF*

# KARLSBAD

**SPRUDEL, MUHLBRUNNEN & SCHLOSSBRUNNEN.**

**These Waters act:**

(1) By immediate contact with the mucous membrane of the stomach and alimentary canal, allaying pain and spasms in these organs, and stimulating the digestive organs into activity.

(2) Through the blood. That is they change its condition by increasing the proportion of alkali in the blood as well as in all derivative secretions (gall, urine, &c.).

**Largely Prescribed in cases of**

**Chronic Gastric Catarrh, Hyperæmia of the Liver, Diabetes, Gout, Gall-stones, Renal Calculi, Diseases of the Spleen and of the Kidney and Urinary Organs.**

*Bottled under Official Supervision at Karlsbad and regularly imported by the Sole Agents—*

**INGRAM & ROYLE, Ltd.,**
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**And at LIVERPOOL and BRISTOL.**

*Samples and Descriptive Pamphlet forwarded on application.*

# JENNER INSTITUTE Glycerinated VACCINE LYMPH

PREPARED IN ACCORDANCE WITH THE THERAPEUTIC SUBSTANCES REGULATIONS (BRITISH PRODUCT)

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SINGLE VACCINATION TUBES - - 8d. each; 7s. dozen. Postage 1½d. extra.
LARGE TUBES (EXPORT Only) sufficient for 5 vaccinations, 1s. 3d. each; 12s. dozen.

*SOLE AGENTS FOR SCLAVO'S ANTI-ANTHRAX SERUM.*

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**JENNER INSTITUTE FOR CALF LYMPH LTD., 73, Church Road, Battersea, S.W.11.**

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"The standard of perfection in medical sprays."

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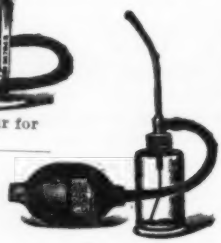

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Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

# COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

# CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

*Resident Physicians*—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

*Telephones*—STARCROSS 59 and TEIGNMOUTH 289

# CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

# CALDECOTE HALL

**NUNEATON**

**WARWICKSHIRE**

('Phone: Nuneaton 241)

Residential treatment of

## Functional Nervous Disorders

**including Alcoholism and other Addictions**

(Certifiable cases are not received)

This beautiful mansion situated in the heart of the country (less than two hours from London by L.M.S.R.) and surrounded by charming pleasure grounds in which games and outdoor occupational therapy are available is devoted to the treatment of Functional Nervous Disorders by psychotherapeutic and ancillary methods.

*Illustrated Brochure and particulars obtainable from A. E. CARVER, M.D., D.P.M., Resident Medical Superintendent.*

# PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

**Telegrams: "Alleviated, London."** **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

# PARK SANATORIUM

(FORMERLY SANATORIUM TURBAN)

## DAVOS-PLATZ, SWITZERLAND

First-class house, 5,150 ft. above sea-level. Large park and wood belonging to the sanatorium. Terms for board and residence, including room, medical treatment, etc., from Frs. 16.- per day. Prospectus.

**Medical Superintendent, F. BAUER, M.D.**

# CHISWICK HOUSE,

**PINNER, MIDDLESEX.**

**Telephone: PINNER 234.**

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

## NERVOUS & MENTAL AFFECTIONS

*Ladies only received*

## The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

# THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

**President: The Right Hon. the LORD SAYE AND SELE.**

**This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.**

**For further particulars apply to the Physician-Superintendent.**

# HILL END HOSPITAL AND CLINIC

**FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS**

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

## HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO FOUR GUINEAS PER WEEK.

For further particulars apply to the Medical Director, W. J. T. KIMBER, L.R.C.P., D.P.M.

## ST. ALBANS, HERTS

# RUSSELLS

**Hemel Hempstead Road,**

**WATFORD**

**Telephone: WATFORD 5917**

**A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.**

Apply: RESIDENT MEDICAL OFFICER.

# CLARENCE LODGE

**CLAPHAM PARK, LONDON**

Situated in 3½ acres of secluded gardens.

**HOME FOR TWELVE MENTAL PATIENTS (LADIES).**

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

*Station:* Clapham Common Tube.

*Phone:* Tulse Hill 4913

Apply MISS THWAITES.

**PRIVATE NERVOUS AND MENTAL PATIENTS**

London County Council. — Accommodation for Male Patients suffering from nervous and mental disorder (voluntary, temporary, or certified) is provided in the private section of Claybury Hospital, Woodford-bridge, Essex. Terms, exclusive of clothing and special luxuries, 49s. a week for London cases, 53s. 1d. a week for others.

For particulars apply to the Medical Superintendent at the Hospital, or to the Chief Officer, Mental Hospitals Department, Shell-Mex House, Strand, W.C.2.

# HOME FOR EPILEPTICS

**MAGHULL (near LIVERPOOL)**

**FARMING and OPEN AIR OCCUPATION for PATIENTS**

**A few vacancies in 1st and 2nd Class Houses.**

**FEES: 1st Class (men only) from £3 p.w. upwards.**
**2nd Class (men and women) 32/- p.w.**

*For further particulars apply:*

**C. EDGAR GRISEWOOD, A.C.A., Secretary,**
**20 Exchange Street East, Liverpool, 2**

# STRETTON HOUSE,

**Church Stretton, Shropshire.**

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

# EPILEPSY

Attendance at school is a necessary part of the satisfactory treatment of Epilepsy in Children.

## COLTHURST HOUSE SCHOOL

meets all the requirements of children of middle-class parentage. Extensions made necessary by the success of the School have created several vacancies.

Only bright and intelligent boys and girls are eligible for admission.

Apply to the DIRECTOR, COLTHURST HOUSE SCHOOL, WARFORD, ALDERLEY EDGE

# HEIGHAM HALL, NORWICH

**A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.**

Apply to Dr. J. A. SMALL.
Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

# MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

# CITY OF LONDON MENTAL HOSPITAL

**Near DARTFORD, KENT.**

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

# FENSTANTON

**Christchurch Road, Streatham Hill, S.W.2**

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

*Apply:* **Dr. MADELINE R. LOCKWOOD,**
*phone:* **TULSE HILL 7181** *Resident Physician Superintendent.*

# EPPING HOUSE

## LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

*Telephone:* Essenden 12. *Apply,* J. C. BAKER, M.B.

# BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.
Telephone: No. 6207 Gloucester.

# Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received.
Apply to Dr. HAYNES. Tel.: Brentwood 45.

# BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

*For further particulars apply—*
Dr. ERNEST ROLLINS, Resident Physician.
*Tel.:* Amherst 1642.

# RHEUMA SPA, KINMEL HALL,

## ABERGELE, NORTH WALES

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

*IDEAL WINTER QUARTERS—REDUCED RATES*

## THE MARINE SPA

(under the direction of the Corporation)

# TORQUAY

Newly fitted Balneological, Electro-Medical, and Small Turkish and Russian Bath sections for recognised forms of Spa, etc., treatment, under mild winter climatic conditions. Large Cooling Lounge, and "Vita" Glass Sun Lounge. Warm Sea-Water Swimming Bath with modern filtration plant. Assistants with C.S.M.M.G., and Bio-Physical qualifications.

*Illustrated Spa and Health Resort Brochures post free on application.*

H. Berkeley Hollyer, General Manager.
(late Manager, Brine Baths, Droitwich Spa)

## The Physical Treatment Centre that is "different"!

50 minutes from London (Victoria), 15 minutes from Brighton. Standing in 7 acres of lovely grounds at the foot of the South Downs.

**Climate,** mild but not relaxing. No fogs, sheltered from cold winds.

**Comfort,** Service and every facility for Physical Treatment, without irksome restrictions of nursing home or clinic.

**Treatments,** Include: Foam Baths, Ultra-Violet and Infra-red Ray, Diathermy, and other Electrical treatments, Pistany Mud Packs, etc. Massage and Remedial Exercises, Fully-qualified staff. Resident Physician.

**Convalescent** patients specially catered for.

Electric Lift to all floors. Fully Licensed. Superb Cuisine, Special Dieting if required.

● *Medical Practitioners are cordially invited to visit the Restorium. Write for Brochure and Terms to: Physician in Charge, Sunnyside Restorium, Hassocks, Sussex. Telephone: Hassocks 103.*

# *Sunnyside*

*Restorium*

HASSOCKS . . . SUSSEX

# JAMAICA

THERE'S SUNSHINE EVERY DAY!

Come to this delightful island—the jewel of the West Indies—for a holiday you'll never forget. Beauty abounds everywhere—the ideal place for rest and recuperation.

A perfect climate with sunshine every day. Glorious ocean bathing and sports and games of all kinds.

Splendid modern hotels, shops and clubs. Only 14 days from the United Kingdom.

*Write for:*

**FREE DESCRIPTIVE BOOKLET,**
Dept. J.L., The West India Committee,
14, Trinity Square, London, E.C.3.
Telephone: ROYal 1188.

**THE CLINIC**

**20 Devonshire Place**
**London, W.1**

*Tel.: Welbeck 4444 (20 lines)*

**A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES**

Fees 10 gns. to 18 gns. per week (Average—14 gns.).
8 Operating Theatres.
150 State Registered Nurses.
2 Resident Medical Officers (for emergencies).
Patients only received under the supervision of their own Medical Practitioner.
Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

**Smedley's**
Great Britain's Greatest Hydro
**Matlock**

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.
*Resident Physicians:* G. C. R. HARBINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIS, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*
*'Phone:* Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

A vacancy exists for a MORBID ANATOMIST AND SEBAG-MONTEFIORE RESEARCH FELLOW.

The appointment is whole-time and non-resident.

The appointment in the first place is for one year, but is renewable. Initial salary according to experience, but not less than £600 per annum.

The successful candidate will be required to take up his duties in March, 1939, or subsequently by arrangement.

Candidates must be registered Medical Practitioners and trained in Pathological Anatomy and Histology.

Applications, accompanied by copies of not more than three testimonials given specially for the purpose, must be delivered to the undersigned not later than Monday, 30th January, 1939.

Candidates must be prepared to appear before the Joint Committee at their Meeting on Wednesday, 1st February, 1939, at 4.45 P.M.

Forms of application and details of the appointment will be supplied on application.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

The post of CLINICAL PATHOLOGIST will be shortly vacant. Salary £750 per annum.

The appointment is whole time and non-resident. Facilities, within certain limits, will be given for private pathological practice.

The successful candidate will be required to take up his duties preferably on the 1st March, 1939.

Candidates must be registered Medical Practitioners with special experience in bacteriology and clinical pathology.

Applications, accompanied by not more than three testimonials, given specially for the purpose must be delivered to the undersigned not later than NOON on Monday, the 19th December, 1938.

Candidates must be prepared to appear before the Joint Committee on Wednesday, 21st December, 1938, at 4.45 P.M.

Forms of application, and details of the appointment are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

## Hospital for Tropical Diseases.

RESIDENT MEDICAL SUPERINTENDENT.

The Committee of Management of the Seamen's Hospital Society invite applications for this post falling vacant on 1st January, 1939. The appointment will be tenable for two years. Minimum commencing salary £250 per annum, with board, residence, and laundry. Candidates must be Male, single, and legally qualified and registered. Membership of the Royal College of Physicians and some knowledge of tropical medicine is desirable, but not essential.

Applications, stating age, with copies of not more than three recent testimonials, to be sent on or before 7th December, 1938, to

D. A. C. PRICE, Secretary, Hospital for Tropical Diseases.
25, Gordon-street, W.C.1.

## St. Paul's Hospital for Urological and
SKIN DISEASES, Endell-street, London, W.C.2.

Applications are invited for the post of Male HOUSE SURGEON. Candidates must be qualified and registered. Salary £100 per annum, with board-residence. The appointment is for three months in the first instance and the holder will later be eligible for the post of Resident Medical Officer. During his appointment as House Surgeon the duties involve work in the Surgical wards and in the Out-patient department.

Applications, with copies of recent testimonials, to be submitted not later than December 12th. The successful candidate will be required to take up duty about the end of December.

J. P. KEY CHISLETT, Secretary.

## Chelsea Hospital for Women,
Arthur-street, S.W.3.

There is a vacancy for a REGISTRAR AND RADIUM OFFICER (Gynæcological).

Candidates must be Graduates in Medicine of a recognised University, or Fellows or Members of one of the Colleges of Physicians of London, Edinburgh, or Ireland, or Fellows of one of the Colleges of Surgeons of England, Edinburgh, or Ireland. They must be registered under the Medical Act and engaged in consulting practice only. There is an honorarium of £75 per annum.

Applications are invited for the above post and must be sent to the undersigned, accompanied by copies of three testimonials, not later than Wednesday, 7th December.

GEO. W. COOLING, Secretary.

## British Postgraduate Medical School.

There are Three vacancies for HOUSE SURGEONS to the Surgical Unit, British Postgraduate Medical School, Hammersmith Hospital. The appointments are for six months and are not renewable. Salary £105 per annum, with board, residence, laundry. Duties to commence on 1st January, 1939.

Duties are mainly in General Surgery, but one appointment is to the Department of Traumatic and Orthopædic Surgery. Applicants must have held a previous House appointment.

Applications, with copies of testimonials, should be sent to the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12, to arrive not later than the first post on Monday, 12th December, 1938.

## St. Peter's Hospital for Stone, etc.,
Henrietta-street, Covent Garden, W.C.2.

The appointment of CLINICAL ASSISTANTS to the undermentioned members of the Honorary Staff, who attend the Out-patients Department at the times indicated, will be considered at an early date. A fee of Five Guineas becomes payable to the funds of this Hospital on appointment, and applications should reach the undersigned on, or about, Tuesday, 6th December.

| | | | |
|---|---|---|---|
| Mr. JOHN SANDREY | Mondays | 3.0 to 6.0 P.M. | |
| Mr. ALBAN ANDREWS | Tuesdays | 2.0 ,, 5.0 P.M. | |
| Mr. OGIER WARD | Wednesdays | 3.0 ,, 7.0 P.M. | |
| Mr. F. J. F. BARRINGTON | Thursdays | 3.0 ,, 7.0 P.M. | |
| Mr. R. OGIER WARD | Fridays | 9.30 ,, 11.30 A.M. (women and children) | |
| Mr. ALBAN ANDREWS | Fridays | 3.0 ,, 6.0 P.M. (male out-patients) | |
| Mr. JOHN SANDREY | Saturdays | 2.0 ,, 6.0 P.M. | |

BEECHEY ROGERS, Secretary.

## University of London.

The Senate invite applications for the University CHAIR OF MEDICINE tenable at University College Hospital Medical School. Salary £2000 a year.

Applications (12 copies) must be received not later than first post on 16th January, 1939, by the Academic Registrar, University of London, Senate House, W.C.1, from whom further particulars should be obtained.

## Bolingbroke Hospital,
Wandsworth Common, S.W.11.
(135 Beds.)

CASUALTY OFFICER (Male, unmarried) required.

The appointment is for six months commencing on the 1st January, 1939. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before December 7th, 1938.

W. S. RANDOLPH BISS, Secretary-Superintendent.

## Metropolitan Borough of Greenwich.

JUNIOR ASSISTANT MATERNITY AND CHILD WELFARE MEDICAL OFFICER.

AMENDED ADVERTISEMENT.

The Council of the Metropolitan Borough of Greenwich is prepared to receive applications from registered Medical Practitioners for the appointment of Junior Assistant Maternity and Child Welfare Medical Officer in the Borough of Greenwich.

Applicants must not be more than forty-five years of age, must have had experience in connection with Maternity and Child Welfare work generally, must be registered Medical Practitioners who, prior to the 1st April, 1930, had held the appointment of Medical Officer of an Ante-Natal Clinic with the approval of the Minister of Health, or who, subsequent to qualification, have had at least three years' experience in the practice of their profession and special experience of Practical Midwifery and Ante-Natal work. The possession of the Diploma in Public Health and Resident Obstetric experience will be considered additional qualifications. The person to be appointed will act generally under the direction and supervision of the Medical Officer of Health, who is the Administrative Medical Officer of the Maternity and Child Welfare Services.

The salary will be at the rate of £500 per annum, rising by annual increments of £25 to a maximum of £700 per annum, but in the event of the successful candidate possessing the Diploma in Public Health, the commencing salary will be increased to £550 per annum.

The successful candidate will be required to reside in the neighbourhood of the Borough Council's Maternity Home, to devote the whole of his or her time to the service of the Council, and not to engage in private practice.

The appointment will be subject to the provisions of the Council's Superannuation Scheme and will be terminable by three months' notice in writing on either side.

Applications, must be made on forms to be obtained from the undersigned, stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, must be sealed up and endorsed "Junior Assistant Maternity Medical Officer," and reach me not later than 12 o'clock NOON on Monday, 19th December, 1938.

Canvassing members of the Council, either directly or indirectly, will be a disqualification.

D. J. REASON, Town Clerk.

Town Hall, Greenwich, S.E.10, 2nd December, 1938.

## The London Homœopathic Hospital

(Incorporated by Royal Charter.) (200 Beds.)
Gt. Ormond-street and Queen-square, Bloomsbury, W.C.1.

The Board of Management invite applications for the appointment of

REGISTRAR.

Candidates must possess a registrable University Degree and are required to show evidence of the knowledge of the theory and practice of Homœopathy.

It is further required that the successful candidate must be or become a member of the British Homœopathic Society.

The appointment, which is an annual one and renewable on the recommendation of the Medical Committee, carries an honorarium of £150 per annum and entails attendance at the Hospital for not less than two hours daily.

Selected candidates will be required to attend a meeting of the Medical Committee for interview.

Applications, stating age, qualifications and experience, should be sent on or before December 31st, 1938, addressed to the undersigned, of whom further particulars may be obtained.

L. J. KNOWLES, Secretary.

## West London Hospital,

Hammersmith, W.6. (239 Beds.)

Required One HOUSE PHYSICIAN and Three HOUSE SURGEONS (Males). These appointments are tenable for six months from 1st January next, subject to one month's notice on either side. The duties of the House Physician include some work in the Neurological and Dermatological Departments. The duties of one House Surgeon include some work in the X Ray Therapy Department, another some work in the Gynæcological Department, and the third some work in the Ear, Nose, and Throat and Ophthalmic Departments. For this last appointment it would be desirable that candidates should be reading for the D.L.O. Salary at the rate of £100 a year, with full board and lodgings.

Candidates must be registered under the Medical Act.

Applications (which must be on printed forms obtained from me) must reach me not later than first post on Thursday, 15th December. Selected candidates will be required to call upon such members of the Medical Staff as directed; to be in attendance at a meeting of the Medical Council at 4.30 P.M. on Friday, 23rd December, and the House Committee meeting at 5 P.M. the same day, when the appointments will be made.

H. A. MADGE, Secretary.

**Applications are invited for the post** of HON. ASSISTANT GYNÆCOLOGIST to the St. John Clinic and Institute of Physical Medicine. Candidates must be Fellows of the Royal College of Surgeons or Members of the Royal College of Physicians.

The Hon. Assistant Gynæcologist is required to attend the Clinic once a week.

Applications should be sent not later than December 20th, to the Secretary, at St. John Clinic, Ranelagh-road, S.W.1.

## The Nelson Hospital, Merton, S.W.20.

(84 Beds.)

RESIDENT HOUSE SURGEON (Male, unmarried) required 1st January, 1939, for duties in connexion with Men's and Children's Wards—share casualty work. Appointment for six months in first instance. Salary at rate of £150 per annum, plus usual allowances and fees earned.

Candidates must be British by nationality and birth.

Applications, with copies of recent testimonials, should be sent to the Secretary not later than 17th December, 1938.

## The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of ASSISTANT SURGEON to the Hospital. Candidates must be Fellows of the Royal College of Surgeons of England, or Masters of Surgery of a recognised British University.

The appointment is made subject to Rules and Conditions laid down by the Charter of Incorporation, details of which can be obtained from the Secretary.

Applications (eighteen copies), with copies of not more than three recent testimonials, should be sent to the undersigned by not later than the first post on Monday, 19th December, 1938.

CLEMENT COBBOLD, Secretary.

## London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned position. Experience in resident appointment in general hospital for at least six months desirable. Married quarters not available. No accommodation for a woman.

Colindale Hospital, The Hyde, Hendon, N.W.9.

ASSISTANT MEDICAL OFFICER (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

Experience in the treatment of pulmonary tuberculosis essential.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, County Hall, S.E.1, returnable by 12th December.

Canvassing disqualifies.

## London County Council.

ASSISTANT DISTRICT MEDICAL OFFICERS

Required for undermentioned districts:—

(1) AREA I, DISTRICT K (SOUTH POPLAR).—Provisional salary £350.
(2) AREA VIII, DISTRICT D (Part SOUTHWARK).—Provisional salary £212 10s. (inclusive of payment for use of doctor's surgery for Council's patients).
(3) AREA X, DISTRICT G (WOOLWICH, North of River).—Provisional salary £75 (inclusive of payment for use of doctor's surgery for Council's patients).

Persons appointed required to reside in or near districts.

Application form, with further particulars obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1.

Canvassing disqualifies.

## London County Council.

CONSULTANT AND SPECIALIST SERVICES.

Part-time OBSTETRICIAN and GYNÆCOLOGIST (one position) required for duty at Hackney Hospital and St. Leonard's Hospital, Shoreditch. Salary £800.

Officer responsible, subject to administrative control of Medical Superintendents, for obstetric and gynæcological work at these hospitals. Required to live within reasonable distance of hospitals, to visit them daily and as required.

Application forms (stamped, addressed foolscap envelope necessary) from Medical Officer of Health (S.D.6), County Hall, Westminster Bridge, S.E.1, returnable by 19th December. Women eligible. Canvassing disqualifies.

## London Chest Hospital,

Victoria Park, E.2.
(Bus, Tram and Rly. Cambridge Heath, L.N.E. Rly.).

REGISTRAR—Ear, Nose, and Throat Dept. (Male) (Part-Time).

Applications are invited for the above post.

The appointment will be for a period of one year.

Honorarium £50 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned immediately.

THOMAS BROWN, Secretary.

## The London Chest Hospital,

Victoria Park, E.2.
(Bus, Tram and Railway, Cambridge Heath, L. & N.E.Rly.)

SURGICAL REGISTRAR (Male) (Part-time).

Applications are invited for the above post. Four sessions a week, Tuesday and Friday mornings essential. Appointment is for one year. Honorarium £100 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before Tuesday, December 6th, 1938.

THOMAS BROWN, Secretary.

# HIS MAJESTY'S COLONIAL SERVICE

## COLONIAL MEDICAL SERVICE

During 1938 and 1939 the Secretary of State for the Colonies proposes to select a number of **MEDICAL OFFICERS** to fill vacancies, the majority of which will occur in **TROPICAL AFRICA** or in **MALAYA.**

**QUALIFICATIONS.**

Candidates must be British subjects of European parentage, under 35 years of age, and must possess a medical qualification registrable in the United Kingdom. Preference will be given to candidates who have held Hospital or Public Health appointments, or who have special knowledge of anæsthetics, radiology, surgery, medicine, ophthalmology, gynæcology and midwifery, diseases of the ear, nose, and throat, venereal diseases, &c.

**SALARY.**

Initial salaries vary from £600 to £700, and rise by increments to a maximum of between £1000 and £1200.

**PRIVATE PRACTICE.**

Private practice is not allowed as of right, but in the case of some appointments it is permitted on certain conditions.

**QUARTERS.**

In Tropical Africa, free quarters, or an allowance in lieu, are provided. In Malaya, quarters are provided at an annual rental not exceeding 6 per cent. of the officer's salary.

**PASSAGES.**

Free first-class passages are provided on first appointment and when proceeding on and returning from leave. Assistance is also given towards family passages.

**TERMS OF APPOINTMENT.**

The appointments are pensionable, subject to a probationary period which varies from two to three years.

**COURSES OF INSTRUCTION IN TROPICAL MEDICINE and HYGIENE.**

Selected candidates will normally be required to attend a course of instruction leading to the Diploma in Tropical Medicine and Hygiene before proceeding overseas.

**DUTIES.**

Although Medical Officers are appointed in the first instance for general service, there are opportunities for work in special branches of medicine and surgery, in public health, and in medical research.

Further particulars and forms of application may be obtained from the DIRECTOR OF RECRUITMENT (Colonial Service), 8, Buckingham Gate, London, S.W.1.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

## Hospital for Diseases of the Skin,
Blackfriars.

The Committee of Management will shortly appoint an additional member of the HONORARY STAFF. Candidates should be either Members of the Royal College of Physicians (London) or Fellows of the Royal College of Surgeons (England).

Applications, with testimonials in support, must be sent before December 12th to L. MUNDY, Secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

## The Princess Beatrice Hospital,
Earl's Court, London, S.W.5.
(General Hospital. 81 Beds.)

Applications are invited for the appointment of HONORARY ASSISTANT SURGEON to the OPHTHALMIC DEPARTMENT of The Princess Beatrice Hospital. Candidates must be F.R.C.S. Eng., and engaged in Consulting Practice only.

Applications, together with copies of three recent testimonials, should be received by the Secretary by the first post, 5th December, 1938.

## The Princess Beatrice Hospital,
Earl's Court, London, S.W.5.
(General Hospital. 81 Beds.)

RESIDENT SURGICAL OFFICER (Male) required for a period of six months in the first place from 1st January, 1939, eligible for re-election. Salary at the rate of £200 per annum, with board, residence and laundry (together with £25 to cover all duties during the six months relating to Private Patients). Previous resident experience and F.R.C.S. essential.

Applications, with copies of three recent testimonials, should be received by the Secretary not later than 9 A.M., Monday, December 5th, 1938.

## The Hospital for Women,
Soho-square, W.1.

Applications are invited for the posts of HONORARY CLINICAL ASSISTANTS to the Surgeons in charge of Out-patients. The appointments will be for attendance at one or two Out-patient sessions per week for a period of six months, commencing January 1st, 1939. Sessions are held at 1.45 every week-day except Saturday.

Applications must reach the undersigned by Monday, 12th December, 1938.

J. P. HEMING, Secretary.

## The Queen's Hospital for Children,
Hackney-road, London, E.2. (160 Beds.)

HOUSE PHYSICIAN required 1st January, 1939.

CASUALTY OFFICER required 1st January, 1939. Some Dermatological work in addition.

Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.

Applications must be made on forms to be obtained from the undersigned, and be sent in, with copies of not more than three testimonials, on or before 7th December, 1938.

CHARLES H. BESSELL, Secretary.

14th November, 1938.

## National Hospital,
Queen-square, W.C.1.

RESEARCH FELLOWSHIP.

By the generosity of a private donor a Full-time Research Fellowship has been created for the investigation of DISORDERS OF MUSCLE at the National Hospital, Queen-square, London, W.C.

The Fellowship will be open to Graduates in Science or Medicine and is of the value of £500 per annum, tenable for one year in the first instance.

Applicants should state their previous experience and the method of investigations they propose to adopt.

Further particulars may be obtained from the Secretary, National Hospital, Queen-square, W.C.1, and applications should reach him by January 15th, 1939.

## Royal Masonic Hospital,
Ravenscourt Park, W.6.

A post of RESIDENT MEDICAL OFFICER (Male), preferably with M.R.C.P. qualification, will be vacant on 1st January, 1939. Salary at the rate of £300 per annum, with board, residence, and laundry. The appointment is for twelve months. Candidates must be registered, and must have held resident appointments in General Hospitals.

The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary Nursing Home treatment, &c.

Applications, stating full particulars, to be sent on or before Monday, 5th December, 1938, to the Honorary Secretaries, from whom further information may be obtained.

## Hampstead General Hospital,
Haverstock Hill, N.W.3.

Applications are invited from single Medical Men for the post of HOUSE SURGEON for six months vacant 1st January next. Salary £100 per annum.

Applications on the prescribed form with copies of three testimonials to be returned to the Secretary by 10th December.

## Hampstead General Hospital,
Haverstock Hill, N.W.3.

(Out-patient Department, Camden Town, N.W.1.)

A vacancy is declared in the office of OPHTHALMIC SURGEON to OUT-PATIENTS.

Candidates must be Fellows of the Royal College of Surgeons, England, and are required to call upon members of the Honorary Medical Staff of the Hospital.

Applications, stating age, qualifications, and experience, with copies of three testimonials, should reach the undersigned by 16th of December, from whom full particulars may be obtained.

KENNETH A. F. MILES, Secretary.

## Royal Free Hospital,
Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Practitioners for the post of ANÆSTHETIC REGISTRAR at the above Hospital for one year from 1st February, 1939, with option to apply for reappointment for two subsequent years.

The post is a non-resident one and carries with it a remuneration of £150 per annum.

Candidates should have had experience in all forms of Anæsthetics, including Dental work.

They should submit applications, with copies of three recent testimonials, stating age and qualifications, to the undersigned, on or before 7th January, 1939.

RICHARD T. BARTLEY, Secretary.

## The Middlesex Hospital and Medical
SCHOOL, London, W.1.

Applications are invited for the post of OTOLOGICAL REGISTRAR. The appointment will be for one year from 1st January, 1939, and the holder will be eligible to apply for reappointment and may retain office for three consecutive years. Salary £300 per annum.

Further particulars may be obtained from the Secretary-Superintendent, to whom applications, with copies of not more than three testimonials must be sent by NOON on Wednesday, December 14th, 1938.

S. R. C. PLIMSOLL, Secretary-Superintendent.

28th November, 1938.

## Guy's Hospital Dental School.

Applications are invited for the whole-time post of DENTAL RESEARCH FELLOW, the appointment to begin as soon after 1st January, 1939, as possible. Preference will be given to a biochemist who is prepared to undertake work on dental diseases. The appointment will be for two years in the first instance with the possibility of reappointment. The stipend will be at the rate of £400 per annum.

Applications, accompanied by the names of three persons to whom reference may be made, should be submitted not later than 31st December, 1938, to the Dean, Guy's Hospital Medical School, S.E.1, from whom further particulars regarding the appointment may be obtained.

## The Willesden General Hospital,
Harlesden-road, N.W.10.

OUT-PATIENT DEPARTMENT CLINICAL ASSISTANTS (HONORARY).

Applications are invited for appointment to the following sessions:—

| | |
|---|---|
| GYNÆCOLOGICAL .. | Thursday mornings. |
| SURGICAL .. .. .. | Friday afternoons. |
| MEDICAL .. .. .. | Friday mornings. |

Applications should be forwarded to the Secretary from whom further details of the appointments may be obtained, and should be received not later than first post on Tuesday, 13th December, 1938.

28th November, 1938.

## The Willesden General Hospital,
Harlesden-road, N.W.10.

Applications are invited from fully-qualified and registered candidates (unmarried) for the appointment of a Resident Officer, to hold the appointment of CASUALTY OFFICER for a period of three months from the 1st January, 1939, followed by a six months' appointment as HOUSE SURGEON. (Total nine months.)

Salary at the rate of £100 per annum.

Applications to be received by the Secretary not later than first post on Thursday, 15th December, 1938.

28th November 1938.

## Junior Pathologist to the Devonport
PATHOLOGICAL LABORATORY, DREADNOUGHT SEAMEN'S HOSPITAL, Greenwich, S.E.10. The Committee of Management of the Seamen's Hospital Society invite applications for this post.

The appointment in the first instance will be for one year at a salary of £400 per annum, but the elected candidate will be eligible for re-election for a second year.

Applications, stating age and experience, with copies of not more than three recent testimonials, to be sent in on or before Friday, 9th December, to the undersigned.

F. A. LYON, Secretary.

Seamen's Hospital, Greenwich, S.E.10.

## Borough of Ealing.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Men with a Public Health qualification for the position of Assistant Medical Officer of Health.

A candidate must have had at least three years' experience in the practice of his profession. The person appointed will be required to carry out medical inspection of school-children and child welfare work and perform such other duties as may be allotted as Assistant to the Medical Officer of Health and School Medical Officer.

He will be required to devote his whole time to the duties, and will not be allowed to engage in private practice. The salary will be at the rate of £600 per annum, rising by £25 per annum to £700.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connection therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 15th December.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

## Borough of Ealing.

ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Men (single) with a Public Health qualification for the position of Assistant Medical Officer.

A candidate must have had experience in the treatment of cases of Infectious Disease at an Isolation Hospital. The duties will include the medical care of patients in the EALING AND BRENTFORD and CHISWICK ISOLATION HOSPITAL, South Ealing, and the Medical Inspection and Treatment of School-children at Schools and Health Centres in the Borough of Ealing.

The person appointed will reside at the Isolation Hospital, where furnished rooms and board will be provided.

He will be required to devote his whole time to the duties and will not be allowed to engage in private practice. The salary will be at the rate of £150 per annum, rising by £25 per annum to a maximum of £550, plus board and residence, as indicated above and valued at £150 per annum.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connection therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 15th December.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

## The East Ham Memorial Hospital,

Shrewsbury-road, E.7. (104 Beds.)

The General Committee invites applications for the post of HONORARY RADIOLOGIST.

Applications, stating age and full particulars, together with copies of three testimonials, should reach the undersigned on or before 14th December.

Candidates will be expected to send copies of their applications and testimonials to and call upon members of the Honorary Medical Staff.

REGINALD PERRY, Secretary.

## South London Hospital for Women,

Clapham Common, S.W.4.

Applications are invited from Medical Women as

CLINICAL ASSISTANT

for Gynæcological Out-patients, to attend on Monday afternoons.

Applications, with testimonials, to be sent to the Secretary at the Hospital.

## Woolwich and District War Memorial

HOSPITAL, Shooters Hill, London, S.E.18.
General Hospital. (112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for appointment as CASUALTY OFFICER for six months from January 1st, 1939. The remuneration will be at the rate of £100 per annum, plus board, residence, and laundry. The candidate appointed will act as deputy for the Resident Surgical Officer, with consequent opportunities for major surgery.

The closing date for the receipt of applications (which should be made on the prescribed form obtainable from the undersigned) is Monday, December 12th, 1938, and short-listed candidates will be invited to meet the Appointments Committee (at the Hospital) on Thursday, December the 15th, at 4.45 P.M.

R. S. G. HUTCHINGS, Secretary.

## Borough of Bermondsey.

Applications are invited from fully qualified and registered Medical Practitioners (Women—Widows or Single) for the position of ASSISTANT MEDICAL OFFICER for Maternity and Child Welfare.

The salary will be at the rate of £600 per annum, rising by two annual increments of £50 to £700 per annum, and be subject to deductions under the Council's Superannuation Acts. The person appointed will be required to pass satisfactorily a medical examination. Candidates must not have reached their thirty-fifth birthday on the date of their application. Preference will be given to applicants having special experience in the care of women and children. The person appointed will be required as a routine duty to give lectures on hygiene to audiences both of school-children and of adults, and to devote the whole of her time to the work of the Council.

Further particulars of the duties can be had on application to the Medical Officer of Health.

Applications on forms to be obtained from the undersigned and accompanied by copies of not more than three recent testimonials, must be delivered not later than 19th December, 1938.

FRANCIS J. R. MOUNTAIN, Town Clerk.

Municipal Offices, Spa-road, Bermondsey, S.E.16.
2nd December, 1938

## Borough of Wimbledon.

DEPUTY MEDICAL OFFICER OF HEALTH AND DEPUTY SCHOOL MEDICAL OFFICER.

Applications are invited for the above appointment from qualified and registered Medical Practitioners under thirty-five years of age, having at least three years' experience since qualification. Applicants should possess the D.P.H., and experience of school medical work and general public health work is necessary.

The Officer appointed will be required to reside in the borough, to devote his whole time to his official duties, and to work under the direction of the Council's Medical Officer of Health.

The commencing salary is £650, rising by annual increments of £25 to a maximum of £750 per annum. The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the passing of a medical examination.

Application forms can be obtained from the Medical Officer of Health, Town Hall, Wimbledon, to whom they must be returned, with copies of three recent testimonials, not later than first post on Monday, 19th December, 1938.

HERBERT EMERSON SMITH, LL.B., Town Clerk.

Town Hall, Wimbledon, S.W.19, 29th November, 1938.

## Violet Melchett Infant Welfare Centre,

Flood-walk, Chelsea, S.W.3.

Applications are invited for the position of MEDICAL OFFICER in Charge of weekly Ante-Natal and Post-Natal Clinic. Wednesdays 2.0–4.0 P.M. Good experience essential.

Fee 1½ guineas per session.

Applications, with full particulars and three testimonials, should be sent to the Hon. Secretary by December 9th, 1938.

## King's College Hospital.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN.

Applications with copies of three testimonials, should be sent before December 10th to the House Governor, King's College Hospital, Denmark-hill, S.E.5, from whom particulars of the duties may be obtained.

Candidates must be Members or Fellows of the Royal College of Physicians of London.

## King George Hospital, Ilford (near

London). 207 Beds.

ASSISTANT CASUALTY OFFICER AND HOUSE SURGEON to SPECIAL DEPARTMENTS (Male) required for a period of six months. Salary at the rate of £100 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, duly completed, as soon as possible.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

## St. John's Hospital, Lewisham, S.E.13.

Applications are invited for the resident appointment of HOUSE SURGEON (Male) tenable for six months from the 1st January, 1939, at a remuneration of £100 per annum.

Applications, with copies of testimonials, should be received by the undermentioned not later than Tuesday, the 13th December.

J. C. GILBERT, Secretary-Superintendent.

## Royal East Sussex Hospital, Hastings.

Applications are invited for the post of SENIOR HOUSE SURGEON (Female) vacant 1st January, 1939. The appointment is for a period of six months. Salary at the rate of £200 per annum, with board, residence. Candidates must be duly registered Medical Practitioners.

Applications, with copies of recent testimonials, to be addressed to the Secretary.

WILFRID T. KEMSLEY.

## West Ham Hospital for Nervous and MENTAL DISORDERS, GOODMAYES, ILFORD, ESSEX.

Applications are invited for a Male JUNIOR ASSISTANT MEDICAL OFFICER at the above Hospital. Candidates must be unmarried.

The commencing salary is at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, together with emoluments consisting of board, laundry and attendance, valued for superannuation purposes at £150. The person appointed will also be paid, in addition to his salary, the sum of £50 per annum on obtaining the Diploma of Psychological Medicine.

The appointment is subject to six months probation, and to the provisions of the Asylums Officers' Superannuation Act, 1909, Class 1, and to a satisfactory medical examination.

The Hospital is situate 10 miles from London.

Applications, stating age and experience, accompanied by copies of three recent testimonials, must reach the Medical Superintendent not later than 12th December, 1938.

## Worthing Hospital.

Applications are invited for the post of SURGEON to the Hospital. Candidates must be Fellows of the Royal College of Surgeons of England or Masters in Surgery of a British University. They should not be engaged in general practice and must reside within easy access to the Hospital.

Applications with not more than three testimonials (copies only), together with the names of persons to whom reference can be made, should be sent to the Secretary Superintendent of the Hospital, from whom further particulars may be obtained. They should be received not later than 17th December, 1938.

## The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

Applications are invited for the post of REGISTRAR to the FRACTURE AND ORTHOPÆDIC DEPARTMENT.

The Hospital contains 300 Beds and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice.

Candidates must possess one of the higher qualifications in Surgery.

The post is a non-resident one, and the appointment will be in the first place, for twelve months. Salary £400 per annum.

Applications, with copies of testimonials, to be forwarded to the undersigned, from whom further information may be obtained.

W. H. HARPER, House Governor.

22nd November, 1938.

## Middlesbrough Education Committee.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Men for a position as Assistant School Medical Officer in connexion with the medical inspection and treatment of school-children, and such other duties as may be required by the Education Committee. The person appointed will be generally responsible to the School Medical Officer.

Commencing salary £500 per annum (provided the successful candidate has had not less than three years' post-graduate experience), rising by annual increments of £25 to £700 per annum. The Committee may at their discretion take into account previous experience as an Assistant School Medical Officer in determining the amount of the commencing salary. The successful candidate will be required to devote his whole time to the duties of the office. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass satisfactorily a medical examination. The appointment will be terminable by two calendar months' notice on either side.

Forms of application may be obtained on application to the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned not later than Monday, 12th December, 1938.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Office, Municipal Buildings, Middlesbrough.
19th November, 1938.

## Cheshire County Mental Hospital, PARKSIDE, MACCLESFIELD.

Male ASSISTANT MEDICAL OFFICER required, not over thirty years of age and single. Previous Mental Hospital experience not essential. Salary £350, rising annually by £25 to £450, with board, apartments and laundry, valued at £100, subject to deductions under the Asylums Officers' Superannuation Act, 1909.

The successful candidate will be expected to obtain the D.P.M. (which carries with it an addition of £50 per annum to the salary stated), as soon as possible after appointment. There is every scope for original research, the Hospital having a modern laboratory and full equipment for the latest methods of treatment. Time will be arranged for attendance of lectures at Manchester University.

Preference will be given to candidate with Laboratory experience.

Applications, stating qualifications, with copies of three recent testimonials, to be sent to the Medical Superintendent, to be received as soon as possible.

## City of Salford.

ASSISTANT RESIDENT MEDICAL OFFICER, HOPE HOSPITAL. (1150 Beds.)

Applications are invited for the post of Assistant Resident Medical Officer (Male) at Hope Hospital, Salford. The appointment will be for six months in the first instance (to commence at the end of January, 1939) at £200 per annum, renewable for a further period of six months only at £225 per annum, plus board, residence and laundry in each case.

Further particulars and form of application may be obtained from the Medical Officer of Health, 143, Regent-road, Salford, 5, Lancs, to whom it should be returned not later than 10th December, 1938.

H. H. TOMSON, Town Clerk.

## Royal Halifax Infirmary.

Hospital recognised by the Royal College of Surgeons (England).

Wanted, a Third HOUSE SURGEON, as Casualty Officer in charge of Fracture Clinic. (Male, unmarried.) Candidates must be duly qualified and registered. The appointment will be for six months, from 1st January, 1939. Salary, including all services required in connexion with Paying Patients' Ward, £150 per annum, with residence, board, and laundry. The Resident Staff consists of Resident Surgical Officer and three House Surgeons. The Hospital contains Maternity and Paying Patients' Blocks. Also a Pathological Department, a large Eye, Ear, Nose, and Throat Department, Radiological Department, and Radium Clinic.

Particulars of the duties may be obtained from the undersigned, to whom applications, stating age and nationality together with testimonials, should be sent.

A. MIDGLEY, Secretary.

28th November, 1938.

## Lincoln County Hospital.

Wanted, SENIOR HOUSE SURGEON, Male, unmarried. Salary at the rate of £250 per annum, rising to £300 per annum at the conclusion of six months' approved service. Board, residence, and washing will also be provided.

Every candidate for the appointment must be registered under the Medical Acts.

Applications, stating age and other particulars, with copies of not more than three testimonials, are to be sent to the undersigned, from whom further particulars may be obtained.

ARTHUR MOORE, Secretary-Superintendent.

Lincoln, 26th November, 1938.

## Southend-on-Sea General Hospital.

(235 Beds. 8 Residents.)
Hon. Specialist Staff of 20 members.

Applications are invited for the post of
HOUSE SURGEON
including work in the EAR, NOSE, and THROAT DEPARTMENT. Salary £100 per annum, with board, residence, and laundry. The appointment is for six months from 1st January, 1939.

Applications, with copies of two recent testimonials, should be received by the undersigned not later than 10th December.

This post is recognised by the Royal College of Surgeons.

P. H. CONSTABLE, Secretary.

## Birmingham United Hospital.

(Medical School.)
THE CENTRE HOSPITAL, EDGBASTON. (500 Beds.)

Applications are invited from fully qualified candidates for the post of RESIDENT ANÆSTHETIST.

Salary £70 per annum, with full residential emoluments.

Applications, stating age, experience, qualifications, and nationality, with copies of recent testimonials, should be forwarded at once to the undersigned not later than December 10th, 1938.

G. HURFORD, Secretary.

The Centre Hospital, Edgbaston, Birmingham.

## Norfolk and Norwich Hospital, NORWICH. (440 Beds.)

Applications are invited for the post of HOUSE SURGEON to the ORTHOPÆDIC DEPARTMENT. Salary £120 per annum with board, residence, and laundry. Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age, nationality, &c., together with copies of testimonials, should be forwarded to the undersigned not later than Tuesday, 13th December, 1938.

FRANK INCH, House Governor and Secretary.

Friday, 2nd December, 1938.

## Royal Cornwall Infirmary, Truro.

(180 Beds.)

SENIOR HOUSE SURGEON wanted for January 1st, 1939. Salary £150 per annum, with board, residence, laundry, and attendance. Previous hospital experience essential.

Applications, stating age, nationality, and experience, to be forwarded to the undersigned.

A Junior House Surgeon will be appointed on March 1st, 1939.

W. E. GRENFELL, Hon. Secretary.

Truro, 22nd November, 1938.

## County Council of Durham.

ASSISTANT WELFARE MEDICAL OFFICER.

The County Health Committee invite applications for an Assistant Welfare Medical Officer (Woman) at a commencing salary of £600 per annum, rising by annual increments of £25 to £700 per annum. Travelling allowance will be paid by the County Council in accordance with a scale to be approved from time to time.

The appointment will be held subject to three calendar months' notice on either side, and to the following conditions:—

(1) The officer appointed must be a registered Medical Practitioner between the ages of twenty-five and fifty-five years, must devote the whole of her time to the duties of the office, and must not engage in private practice.

(2) She should either have had a previous appointment as Medical Officer of an Ante-natal Clinic, with the approval of the Minister of Health, or have had at least three years' experience in the practice of her profession and special experience of practical Midwifery and Ante-natal work. The holding of a Diploma in Public Health will be deemed an additional qualification for the post.

(3) She will be subject to the directions of the County Medical Officer of Health.

(4) She will be required to reside in Durham City, or such other place as required by the Council.

(5) She must be prepared to undertake any duties in connexion with the Maternity and Child Welfare Services of the County Council, including attendance at Birth Control Clinics.

(6) She must be prepared, if called upon, to act as Locum Tenens to other members of the Medical Staff of the County Medical Officer of Health.

(7) The appointment will terminate on marriage.

(8) The candidate appointed will be required to pass the County Council's medical examination, and will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Applications, endorsed "Assistant Welfare Medical Officer," with copies of not more than three recent testimonials, must be addressed to the County Medical Officer of Health, Shire Hall, Durham, and must be received by him not later than Saturday, 10th December, 1938.

J. K. HOPE, Clerk of the County Council.

Shire Hall, Durham, 21st November, 1938.

## County Council of Durham.

DEPUTY COUNTY MEDICAL OFFICER OF HEALTH.

The County Health Committee invite applications for the appointment of a Deputy County Medical Officer of Health at a salary of £960 per annum. Reasonable travelling and out-of-pocket expenses will be paid by the County Council.

Applicants must be duly registered Medical Practitioners, holding a Degree or Diploma in Public Health, and the gentleman appointed will be required to devote the whole of his time to the duties of the office and to reside in the City of Durham or other approved centre. The appointment will be held subject to three calendar months' notice on either side.

He will be expected to undertake any duties required of him by the Council bearing on the Health and Medical Services of the County, and will act under the administrative control of, and be responsible to, the County Medical Officer of Health for his duties.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to a medical examination as required by the Council for the purposes of the Act, and the statutory contributions to the Superannuation Fund under that Act will be deducted from the salary.

Applications, marked "Deputy County Medical Officer of Health," together with copies of not more than three recent testimonials, must be sent to the County Medical Officer of Health, Shire Hall, Durham, not later than Saturday, 10th December, 1938.

J. K. HOPE, Clerk of the County Council.

Shire Hall, Durham, 21st November, 1938.

## Ayr County Council.

HÆMATOLOGICAL TECHNICIAN.

Applications are invited from experienced Laboratory Technicians for the above post. The person appointed will be required to work under the County Obstetrician, and the duties will consist in routine hæmoglobin investigations and blood counts, as required, upon all patients attending the County Ante-Natal Clinics and Maternity Hospitals. Salary will be at the rate of £240 per annum, subject to deduction for superannuation.

Applications, stating age, sex, experience, and present appointment, along with copies of three recent testimonials, to be submitted to the Medical Officer of Health, County Buildings, Ayr, before 15th December, 1938.

## Royal United Hospital, Bath.

HONORARY SURGICAL REGISTRAR.

Applications are invited for the post of Honorary Surgical Registrar.

Candidates must be Graduates in Surgery of a University of Great Britain or the British Empire.

Applications, stating age, qualifications, and full particulars of experience, together with a copy of three testimonials, should be addressed to the undersigned on or before December 15th.

J. LAWRENCE MEARS, Secretary-Superintendent.

19th November, 1938.

## Royal United Hospital, Bath.

HONORARY ANÆSTHETIST.

Applications are invited from registered General Practitioners for the post of Honorary Anæsthetist.

Applications, stating age, qualifications, and full particulars of experience, together with a copy of three testimonials, to be addressed to the undersigned by December 15th.

Other particulars may be obtained on application to—

J. LAWRENCE MEARS, Secretary-Superintendent.

19th November, 1938.

## Leicestershire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH AND DISTRICT MEDICAL OFFICER OF HEALTH.

Applications are invited for the joint Whole-time appointment of an Assistant County Medical Officer of Health for the Administrative County of Leicester and Medical Officer of Health for the Rural District of Barrow-upon-Soar in the said County at a salary of £800 per annum, with a travelling allowance of £140 per annum. Office accommodation and clerical assistance will be provided by arrangements to be agreed upon by the appointing Authorities. The estimated total population of the Sanitary District is 38,340, the acreage of the area being 54,804.

Applicants, who should not be over forty-five years of age, must be duly qualified and registered Male Medical Practitioners with experience in Public Health duties and must hold the Diploma in Public Health or its equivalent. The Officer appointed will be required to reside at such place in or adjacent to the Sanitary District as shall be approved. As regards the duties of an Assistant County Medical Officer of Health, the Officer will act under the general control of the County Medical Officer of Health and will be required to perform such duties as may from time to time be prescribed. As regards his duties as District Medical Officer of Health, the Officer will be subject to the sole control and direction of the Local Sanitary Authority.

The joint appointment is subject to the approval of the Minister of Health and the Board of Education, and also, so far as the office of District Medical Officer is concerned, to the provisions of the Sanitary Officers (Outside London) Regulations, 1935. The joint appointment will be one under the Local Government Superannuation Act, 1937, and the selected candidate will be required to pass a medical examination. The joint appointment will be determinable by three months' written notice on either side, subject so far as the office of the District Medical Officer of Health is concerned to the consent of the Minister of Health.

Forms of application, together with a list of duties, may be obtained from the undersigned and, accompanied by copies of not more than three recent testimonials, should be returned to him not later than the 13th day of December, 1938.

Canvassing, directly or indirectly, will be deemed a disqualification.

LUCAS E. RUMSEY, Clerk of the County Council.

County Offices, Grey Friars, Leicester, 21st November, 1938.

## County Borough of Bournemouth.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER (Male).

Applications for the above are invited from duly registered Medical Practitioners who should be single and under forty years of age and hold a diploma of Public Health.

The person appointed may be required to undertake any public health work, but special experience of infectious diseases including immunisation is desirable.

Board, lodging, and laundry will at present be provided at the hospital for infectious diseases, and for these a deduction of £100 per annum will be made from the salary which will commence at £500 and rise by annual increments of £25 to a maximum of £700, less 5 per cent. deduction for superannuation purposes.

Application forms can be obtained from the Medical Officer of Health, Town Hall, Bournemouth, to whom they must be returned, with copies of three recent testimonials, not later than the first post of December 10th, 1938.

Canvassing of any kind will be a disqualification.

HERBERT ASHLING, Town Clerk.

Town Hall, Bournemouth.
18th November, 1938.

## Pontefract General Infirmary (Yorks).

JUNIOR RESIDENT MEDICAL OFFICER (Male, unmarried), duly qualified registered Medical Practitioners. Commencing salary £150 per annum, with residence, board, and laundry.

The appointment to date for six months from January 1st, 1939.

Applications, stating age, with testimonials, and nationality, to be sent to the undersigned at once.

DAVID J. RICHARDS, Secretary-Superintendent.

## York County Hospital.

(204 Beds.)

Applications are invited for the post of HOUSE SURGEON for a period of not less than six months. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of not more than three recent testimonials, to be sent to the undersigned not later than 9 A.M. on Monday, 5th December, 1938.

J. R. MACKRILL, Secretary.

## County Borough of South Shields.

ASSISTANT SCHOOL MEDICAL OFFICER (JUNIOR).

Applications are invited from fully qualified and registered Medical Women for the post of Assistant School Medical Officer, at a salary of £500 per annum, rising by annual increments of £25 to £700 per annum.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination.

The person appointed will be under the administrative control of the Medical Officer of Health and she must devote her whole time to the duties of the post and must not engage in private practice.

Forms of application may be obtained from the Medical Officer of Health, Stanhope-road, South Shields.

Applications, with copies of three recent testimonials, should be received at my office not later than 5 P.M. on 14th December, 1938, marked "Appointment of Assistant School Medical Officer."

V. C. CARTER, Secretary.

Education Department, Town Hall, South Shields.

## Borough of Hove.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners under the age of 40 for the above whole-time appointment. The duties will be of a general nature but special experience is necessary in Maternity and Child Welfare and Infectious Diseases, and applicants should possess the Diploma of Public Health.

The salary will be £500 per annum, rising by annual increments of £25 to £700 per annum, together with a car allowance of £50 per annum. The successful candidate will be required to pass a medical examination and to contribute to the Superannuation Fund.

Applications on the prescribed form to be obtained from the undersigned, together with copies of three recent testimonials, must be received not later than Monday, 19th December, 1938.

W. JERMYN HARRISON, Town Clerk.

Town Hall, Hove, November, 1938.

## Glasgow Royal Cancer Hospital and RADIUM INSTITUTE.

RADIUM OFFICER.

Applications are invited for the post of Radium Officer at the above Institution, which is recognised by the National Radium Commission. Commencing salary £650.

Applications (14 copies), giving particulars of qualifications and previous experience and accompanied by not more than three recent testimonials, to be lodged with the undersigned on or before 20th December.

H. MUIR LAWSON, C.A., Secretary and Treasurer.

156, St. Vincent-street, Glasgow, C.2.

## Hounslow Hospital, Staines-road, MIDDLESEX.

HOUSE PHYSICIAN AND CASUALTY OFFICER.

Applications are invited from Male Registered Practitioners of British nationality for the above post. The appointment is for six months from 1st February, 1939, with eligibility for appointment for a further period. Salary £100 per annum, with board, residence and laundry.

Applications, with copies of three recent testimonials, should be sent to the undersigned not later than first post on Tuesday, 20th December.

A. MOWBRAY BARKER, Secretary.

## Harlow Wood Orthopædic Hospital,

Near MANSFIELD, NOTTS.
(155 Beds. Two Residents.)

Applications are invited for the posts of Two HOUSE SURGEONS (Male), one to commence on 1st January, 1939, and the other to commence on 1st February, 1939, the appointments being for six months in the first instance. Salary is at the rate of £200 per annum, with board, residence and laundry.

Applications, stating age, qualifications and experience, with copies of testimonials, should be received by the Secretary not later than 12th December, 1938.

## Hull Royal Infirmary.

Applications are invited for the post of SECOND CASUALTY OFFICER (Male), vacant December 30th.

Salary £150 per annum, plus board, residence and laundry.

In addition to carrying out duties in the Casualty Department, the officer appointed will act as House Surgeon to one of the Honorary Assistant Surgeons, and will thus obtain Ward and Theatre experience. He will be eligible for promotion to a more senior post when a vacancy occurs.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving particulars of age, experience and nationality, together with copies of testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

28th November, 1938.

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## Surrey County Council.

Botleys Park Colony, (Certified Institution for Mental Defectives), Near Chertsey, Surrey.

APPOINTMENT OF FIRST ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) for the whole-time appointment of Resident First Assistant Medical Officer at the above-mentioned Institution.

Commencing salary £400, rising by annual increments of £25 to a maximum of £500 per annum, with £50 extra if in possession of a Degree or Diploma in Psychological Medicine. In addition emoluments of board, lodging, &c., will be provided, valued for superannuation purposes at £150 per annum. Should the successful candidate be married, he will receive the value of the emoluments in cash and be provided with a house on the estate for which a rental of £45 per annum will be charged.

The appointment will be subject to the provisions of the Asylums and Certified Institutions (Officers' Pensions) Act, 1918, and to the Council's Staffing Regulations. The person appointed will be required to undergo a medical examination.

Applications on forms to be obtained from the Medical Superintendent, Botleys Park, Chertsey, must be completed and returned to the Medical Superintendent not later than the 17th December next.

DUDLEY AUKLAND, Clerk of the Council.

22nd November, 1938.

## Essex and Colchester Mental Hospitals.

SEVERALLS MENTAL HOSPITAL.

Applications are invited for the post of MEDICAL SUPERINTENDENT at Severalls Mental Hospital, Colchester.

Applicants must be registered under the Medical Act, and have had previous mental hospital experience, and be not more than forty-five years of age. Salary £1100, rising by annual increments of £50 to £1350 per annum, with unfurnished house, coals, firewood, light, garden produce, washing, garage, and upkeep of garden.

A deduction will be made from the salary in accordance with the Asylums Officers' Superannuation Act, 1909.

Copies of not more than three recent testimonials must be sent with the application so as to reach the undersigned on or before the 22nd December, 1938.

The appointment is subject to three months' notice on either side.

Direct or indirect canvassing will disqualify any applicant.

Forms of application must be obtained from the undersigned.

H. H. GEPP, Clerk to the Committee of Visitors.

66, Duke-street, Chelmsford, 22nd November, 1938.

## Royal Victoria Hospital, Folkestone.

(155 Beds.)

The Committee of Management invite applications for the posts of Two HOUSE SURGEONS, duties to commence on the 1st January, 1939. Salaries £120 per annum, together with board, apartments, and laundry.

Applications, with copies of not more than three recent testimonials, should be sent to the undersigned not later than the 12th December, 1938.

23rd November, 1938. SECRETARY SUPERINTENDENT.

## Buckinghamshire County Council.

TWO ASSISTANT COUNTY MEDICAL OFFICERS OF HEALTH.

Applications are invited from registered Medical Practitioners, not over forty years of age, holding a registrable qualification in Public Health, Sanitary Science, or State Medicine, to act as Assistant County Medical Officer of Health and Assistant School Medical Officer of Health.

The duties will pertain mainly to School Medical Inspection and Maternity and Child Welfare work, but there will be opportunities for the investigation of sanitary conditions generally.

The salary is £600 per annum, rising, subject to satisfactory service, by annual increments of £25 to a maximum of £700 per annum.

The successful applicants will be required to pay contributions under the Local Government and Other Officers' Superannuation Act, 1922, and to pass a medical examination as to physical fitness, the final appointments being subject thereto.

Particulars and conditions of the appointments are set out on the form of application, which can be obtained from the undersigned.

Application, on the prescribed form, accompanied by copies of not more than three recent testimonials, which will not be returned, should be addressed to the Clerk of the Bucks County Council, and delivered at the County Hall, Aylesbury, not later than 11 A.M. on Saturday, 17th December, 1938, marked "Assistant Medical Officer."

GUY R. CROUCH, Clerk of the Bucks County Council.

County Hall, Aylesbury, November, 1938.

## Runwell Hospital,

Nr. WICKFORD, ESSEX.

POST-GRADUATE RESEARCH STUDENT.

A vacancy has occurred for the position of Post-Graduate Research Student at the above hospital for nervous and mental disorders. Candidates must be registered Medical Practitioners and are required to be resident.

Full particulars may be obtained from the Physician Superintendent.

## City of Leeds.

PUBLIC HEALTH DEPARTMENT.

ST. JAMES'S HOSPITAL.
(1330 Beds.)

RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) for the post of Resident Medical Officer at the St. James's Hospital, Leeds.

Applicants must have had previous resident experience in a General Hospital.

Under the present scale of salaries of the Corporation the commencing salary for the post is £350 per annum, and the maximum £450 per annum, with annual increments of £25, subject to satisfactory service. The first increment will take effect on the 1st April following the completion of twelve months' service. Board, residence, and laundry are provided, these emoluments being valued for superannuation purposes at £120 per annum.

The person appointed will be required to pass a medical examination and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922.

The appointment will be terminable by one month's notice.

Applications, on a form to be obtained from the undersigned, together with copies of three recent testimonials, and endorsed "Resident Medical Officer," must be received at the Public Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10 A.M. on Wednesday, the 14th of December, 1938.

Canvassing in any form, either directly or indirectly, will be considered a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

## City of Birmingham.

PUBLIC ASSISTANCE COMMITTEE.

BIRMINGHAM INFIRMARY.

ASSISTANT RESIDENT MEDICAL OFFICER.

The Public Assistance Committee invite applications from fully qualified Medical Practitioners for appointment as Assistant Resident Medical Officer at Birmingham Infirmary.

The Institution has accommodation for upwards of 1900 patients, an increasing proportion of which is set aside for chronic sick cases both male and female.

The Officer appointed will be required to assist in the general medical work of the Institution under the supervision of the Resident Medical Officer.

Any further particulars of the Institution and/or duties can be obtained upon application to the Medical Officer, Dr. L. NAGLEY, M.D.

Salary will be at the rate of £350 per annum, rising, subject to satisfactory service, by annual increments of £25 per annum to £450 per annum together with full residential emoluments (rations, apartments, laundry, and attendance). Four weeks' leave of absence will be granted to the successful candidate.

The appointment will be subject (1) to the candidate satisfactorily passing a medical examination, (2) to one month's notice to terminate on either side. The salary will be subject to deductions in respect of superannuation and (subject to the necessary qualifications) in respect of the Municipal Officers' Widows' and Orphans' Pensions Scheme.

Applications, accompanied by copies of three recent testimonials, should be addressed to the Public Assistance Officer, 102, Edmund-street, Birmingham 3, and forwarded so as to reach him on or before 10 A.M. on Monday, the 19th December next.

Canvassing in any form, oral or in writing, direct or indirect, will be regarded as a disqualification.

F. H. C. WILTSHIRE, Town Clerk.

Council House, Birmingham, 1, 29th November, 1938.

## Birmingham Maternity Hospital.

HOUSE SURGEON (Man or Woman) wanted for nine months from 1st February, 1939 (three months in Hospital, three months on District, and three months in Hospital). Salary to be at the rate of £75 per annum.

Applications, with full particulars and copies of testimonials, to be sent not later than 9th December to HUGH C. ASTON, 45, Newhall-street, Birmingham, 3.

## City of Manchester.

BOOTH HALL HOSPITAL FOR CHILDREN.
(760 Beds.)

The Public Health Committee invites applications from registered Medical Men for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence, and laundry in addition subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Town Hall, Manchester, 2, and applications for the post must be received by him not later than December 10th, 1938.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 28th November, 1938.

## City of Bradford.

CITY SANATORIUM, GRASSINGTON.

ASSISTANT MEDICAL OFFICER required for a period of one year.

Salary £175 per annum, plus board, residence.

Form of application may be obtained from the Medical Officer of Health, Town Hall, Bradford, and should be returned to the undersigned not later than the 12th December, 1938.

N. L. FLEMING, Town Clerk.

Town Hall, Bradford, 28th November, 1938.

## Maidenhead Hospital, Berkshire.

(56 Beds.)

Applications are invited for the posts of HON. GYNÆCOLOGIST and HON. DERMATOLOGIST respectively.

Applications, with copies of recent testimonials, should be received by the undersigned by 17th December, 1938.

R. J. FANNING, Superintendent-Secretary.

## Royal Buckinghamshire Hospital,

AYLESBURY. (115 Beds.)

Applications are invited for the posts of
SENIOR & JUNIOR RESIDENT MEDICAL OFFICERS
(Male).

For six months beginning 1st January, 1939.

Salaries £200 and £150 per annum respectively, with full board, residence in own flat, and laundry.

Previous Hospital experience is desirable. Opportunity will be afforded to undertake all branches of medical and surgical practice, including anæsthesia, and to work with London consultants.

Selected candidates will be required to attend for interview by the Medical Committee on Friday, 16th December, 1938.

Applications must reach the undersigned by Monday, 12th December, 1938.

F. G. DAWES, Secretary.

## Birmingham United Hospital.

FULL-TIME ASSISTANT TO THE RADIOLOGICAL DEPARTMENT.

Applications are invited for the above post.

The appointment is for one year, the holder being eligible for re-election.

Salary £400 per annum to £450 per annum, according to experience.

Candidates must be registered Medical Practitioners and must possess a Diploma in Radiology.

Applications must be sent to the undersigned (from whom all further particulars can be obtained), stating age, experience, and qualifications with copies of recent testimonials, not later than December 17th.

G. HURFORD, Secretary, Birmingham United Hospital.

The Centre Hospital, Edgbaston, Birmingham, 15.
November 29th, 1938.

## St. Mary's Hospitals, Manchester.

One HOUSE SURGEON for the WHITWORTH STREET WEST HOSPITAL (Maternity) and three for the WHITWORTH PARK HOSPITAL (two Gynæcological Department and one Children's Department); each for a period of six months from the 1st February next. Salaries at the rate of £50 per annum, with board and residence.

RESIDENT ANÆSTHETIST, to reside at the Maternity Branch and to give morning sessions in the Gynæcological and Children's Departments, for a period of twelve months from the 1st February next, at a salary at the rate of £100 per annum, with board and residence. Successful candidates will be eligible for admission to the examination of the Examining Board in England for the Diploma in Anæsthetics, providing he has also held an appointment as House Physician or House Surgeon at a recognised General Hospital for six months.

Applications, with copies of three testimonials, to be sent to the undersigned on or before the 13th December.

A. R. WISE, Superintendent and Secretary.

## Salford Royal Hospital.

(256 Beds.)

Applications are invited from registered candidates (Male) for Two HOUSE SURGEONS for six months from 1st January next. Salary £125 per annum.

Forms of application, obtainable from the undersigned, must be delivered on or before 6th December.

By Order of the Board,
H. B. SHELSWELL, General Superintendent and Secretary.
21st November, 1938.

## Royal South Hants and Southampton

HOSPITAL. (296 Beds.)

Applications are invited for a
HOUSE PHYSICIAN
for the six months commencing 1st January, 1939, at a salary of £150 per annum, with board, lodging, and laundry. Candidates must be Male and unmarried.

Applications, accompanied by not more than three testimonials, should be sent to the undersigned not later than Monday, 5th December.

S. W. BARNES, House Governor and Secretary

## Royal Manchester Children's Hospital,

PENDLEBURY, near MANCHESTER.
(232 Beds.)

RESIDENT HOUSE SURGEON.

Applications are invited for the post of Resident House Surgeon for a period of six months, commencing 1st February, 1939. Salary £100 per annum. Candidates having previous experience in the administration of Anæsthetics will be given preference.

Applications, stating qualifications and past experience, together with testimonials, to be sent to the undersigned not later than Thursday, 29th December, 1938.

Canvassing, directly or indirectly, may disqualify.

By Order,
H. HEARDMAN, Secretary.

## King Edward VII Hospital, Windsor.

(200 Beds.)

Two HOUSE SURGEONS required beginning January. Applicants must be fully qualified Men or Women and unmarried.

Salary at the rate of £120 per annum, together with board, residence, and laundry.

Applications, stating age, qualifications and experience, accompanied by testimonials, should be sent to the undersigned not later than December 7th.

The appointments are recognised by the Royal College of Surgeons of England for the six month's training required of candidates before admission to the final examination for the Fellowship.

A. E. CHURCHER, Secretary.

## The Royal Infirmary, Sheffield.

The Board of Management invite applications for the post of OPHTHALMIC HOUSE SURGEON.

The salary attached to the post is £120 per annum, with board and residence.

The successful applicant will be expected to take up his duties on 1st January, 1939.

The Ophthalmic Department contains 69 Beds and an Out-Patient Department which is open daily.

Applications with copies of testimonials to be sent forthwith to the General Superintendent and Secretary.

11th November, 1938.

## The Prince of Wales's Hospital,

PLYMOUTH.
(Incorporating South Devon and East Cornwall Hospital, Greenbank-road, Royal Albert Hospital, Devonport, Central Hospital, Lockyer-street.)

Applications are invited for the post of HONORARY ASSISTANT SURGEON to the Hospital. (The Honorary Surgical Registrar is a candidate for the post.)

Candidates must be Masters of Surgery of a University of the United Kingdom, or Fellows of the Royal College of Surgeons of England or of Edinburgh.

Applications and testimonials must reach the undersigned, from whom the rules and regulations governing the appointment may be obtained, on or before the 24th December, 1938.

Personal canvassing disqualifies, but candidates may send copies of their applications and testimonials to the members of the Board.

ARTHUR R. CASH, General Superintendent.

November 30th, 1938.

## Borough of Heston and Isleworth.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Medical Men with a Public Health qualification for the position of Assistant Medical Officer of Health and School Medical Officer.

Candidates will be required to carry out medical inspection of school-children, bacteriological work, child welfare work, administer dental anæsthetics, and perform such other duties as may be allotted by the Medical Officer of Health.

The person appointed will be required to devote his whole time to the duties, to reside in the Borough, and will not be allowed to engage in private practice. The salary will be at the rate of £500 per annum, rising to £700 per annum by annual increments of £25.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the appointment will be subject to medical examination.

Copies of the application form and terms of appointment can be obtained from the Medical Officer of Health, 92, Bath-road, Hounslow.

Applications, accompanied by copies of not more than three recent testimonials enclosed in a sealed envelope endorsed "Assistant Medical Officer," must be delivered to the undersigned not later than NOON on Friday, 16th December, 1938.

HAROLD SWANN, Town Clerk.

Council House, Hounslow.

## The Royal Army Medical Corps

ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.



## Typewriting.—Specialists in Typing

Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838

## Anæsthetics.—Wanted to purchase,

Old Apparatus and Literature which would have historical interest for Anæsthetists.—Address, No. 528, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

## Essex.—Income £500, including panel

nearly 400. Est. 14 years. House (7 rooms, &c.). £90 rent. Surgery added to side house. Suit younger man. Price £800 (cash, no offers), including drugs, surgery, furniture. No agents.—Address, No. 534, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

## Several Good Secondhand Microscopes

and Objectives, by Ross, Zeiss, Watson, &c., to be cleared at very low prices. Details on application.—City Sale and Exchange (1929), Ltd., 93–4, Fleet-street, E.C.4.

## London.—Cora Hotel.

Upper Woburn-place, near B.M.A. Headquarters. Accommodates 235 visitors. Modern comforts.

Excellent table. A.A. and R.A.C. recommended.

Room, bath, and table d'hôte breakfast, 8s. 6d.

## The International Clinic,

SHERWOOD PARK, TUNBRIDGE WELLS.
Owing to the death of Dr. Cameron, the
WELL-KNOWN FULLY EQUIPPED CLINIC
for Research, Diagnosis, and Treatment
would be sold complete.
Beautifully timbered grounds,
10 Acres to 66 Acres
(as required).

The premises include some 35 bedrooms, 8 bathrooms, 22 treatment rooms and operating theatre; 22 staff rooms in lodges.

Full details may be had of the Sole Agents,
JACKSON STOPS & STAFF,
Stops House, Curzon-street, Mayfair, W.1.

## Ready January, Harley-street vicinity,

Rooms for Medical or Business men. Bed, breakfast, from £2 2s. Other meals as desired. Appointments made by trained secretary.—Address, No. 523, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

## LEY CLARK and PARTNERS,

**3a, WIMPOLE STREET, W.1**

Telephone: LANgham 1095 (3 lines)

*Managing Agents for the following:—*

CONSULTING MAISONETTE—Wimpole-street. Redecorated. 6 rooms, 2 bathrooms, kitchen, cloakroom, use of waiting room, excellent services. Name plate. Rent £350.

Fully equipped DENTAL SURGERY—Wimpole-street (S. S. White equipment) 1st Floor. X ray apparatus available. To let whole or part time. Rent pro-rata to include use of general waiting room. Service. Name plate.

HARLEY-STREET. Full-time consulting rooms with and without Secretary's rooms. Passenger lift. Use of waiting room. Service. Rents from £125 per annum.

Managing Agents, LEY CLARK & PARTNERS,
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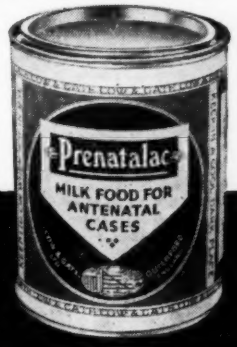


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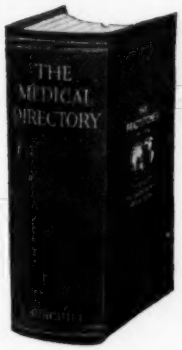


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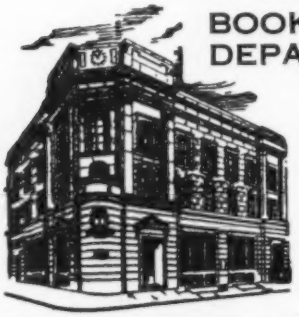

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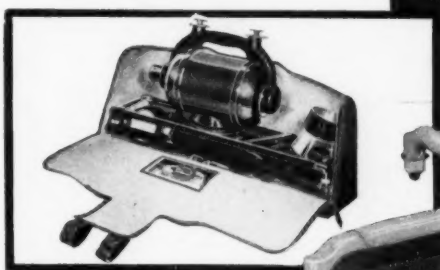

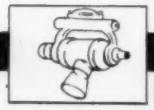

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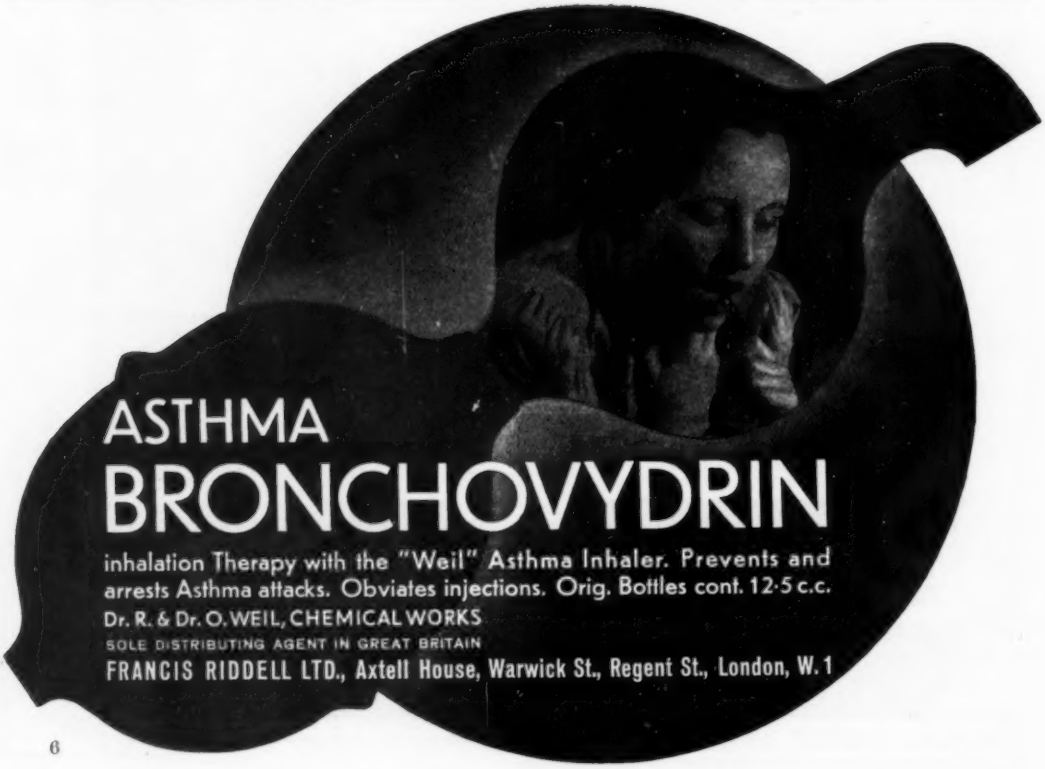

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NEW YORK U.S.A.: 41, Malden Lane. SYDNEY N.S.W.: 350, George Street. CAPE TOWN S.A.: P.O. Box 732

*Benger's Food, in sealed tins, is on sale throughout the world by Chemists, etc.* M.295

# DUAL TREATMENT for head colds

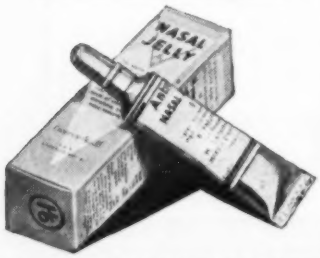
*with the new Antivirus formula*

| | |
|---|---|
| Antivirus Sol. ... ... (containing 0.33% phenol.) | 75.0 |
| Jelly base ... ... | 24.0 |
| Ephedrine HCl ... | 0.5 |
| Flavouring oils ... ... | 0.5 |

Each gram equivalent to 0.025 gm. of dried substance of B. pneumoniae (of Friedlander); M. catarrhalis; and mixed streptococci.

Antivirin Nasal Jelly treats nasal congestion by a combined bacteriostatic and astringent action. 75% of the jelly—an increased proportion—consists of antivirus solution prepared from organisms commonly found in the naso-pharynx during attacks of the common cold. These antivirus factors prevent the growth of bacteria and stimulate local immunity. At the same time, the incorporation of 0.5% ephedrine relieves congestion and reduces irritating secretions. The jelly itself, a glycerin base, is pleasant and soothing. Unlike aqueous or oily solutions, it adheres and penetrates deeply and allows the antivirus to exert a prolonged anti-bacterial effect.

Used in the first stages of a cold, Antivirin Nasal Jelly helps to reduce the attack; while in the later stages it affords valuable relief.




## ANTIVIRIN Nasal Jelly

COLLAPSIBLE TUBES - 1/6

*This price (not applicable in Eire), is subject to usual professional discount.*

PRODUCT OF THE GLAXO LABORATORIES

Glaxo Laboratories Ltd., Greenford · Middlesex. BYRon 3434

# COLITIS

Colitis-Scourge of Civilisation

## COLITIS—Chronic

(Simple Mucous, Muco-Membranous, Post-Dysenteric.)

Alternating intervals of constipation and diarrhœa often occur in cases of colitis. Kaylene-ol is applicable in either phase. Its soothing and adsorptive actions combat the irritative diarrhœa, and its softening and lubricating actions counteract constipation during the intervals.

**DOSE—KAYLENE-OL: 1 or 2 dessertspoonsful three times a day, half hour before meals, or in mild cases half hour before breakfast and at bedtime.**

Kaylene-ol c̄ Phenolphthalein (0.5 per cent.) is taken when constipation is particularly troublesome. Dosage as for Kaylene-ol.

# KAYLENE-OL

**(KAYLENE BRAND OF COLLOIDAL KAOLIN WITH HIGHLY VISCOUS LIQUID PARAFFIN)**

*Samples and literature from the manufacturers:*

**KAYLENE, LIMITED,** *Sole Distributors:* **ADSORBENTS, LTD.**
WATERLOO ROAD, LONDON, N.W.2.

# 'PANOPEPTON'

**AN IDEAL FOOD FOR INVALIDS**

'PANOPEPTON' can be relied upon in cases where the nutrition of the patient is of prime importance.

'PANOPEPTON' possesses remarkably restorative and stimulating properties.

*A free sample will be sent to members of the Medical Profession on request.*

*Supplied in 12-oz. bottles.*

# 'PEPSENCIA'

'PEPSENCIA' **is an ever-ready digestive fluid,** containing all the soluble constituents of the gastric juice preserved in an agreeable aromatic menstruum.

It represents both the peptic and milk-curdling ferments obtained directly from the fresh peptic glands.

*Supplied in four sizes:*

4-oz., 8-oz., 16-oz., and W. Qts.

Originated and Manufactured by—
**FAIRCHILD BROS. & FOSTER** (Inc. N.Y.), *NEW YORK, and 65, Holborn Viaduct, London, E.C.1.*
Agents:
**BURROUGHS WELLCOME & CO.,** *LONDON, SYDNEY and CAPE TOWN.*

TRADE **ORHEPTAL** MARK

**Oral hepatic tonic**

ORHEPTAL is a blood-forming oral liver tonic.

ORHEPTAL also contains other tonic and roborant substances such as iron, manganese and copper salts, sodium glycerophosphate, etc.

ORHEPTAL improves the appetite and body weight, increases the number of red corpuscles and hæmoglobin content.

ORHEPTAL has a pleasant taste and can be taken for long periods even by fastidious people.

Mainly for use in

**Anæmic conditions** after operations, childbirth, severe hæmorrhage, etc.

**Convalescence** after infectious diseases.

**Conditions of exhaustion,** mental or physical, and general loss of tone.

*DOSAGE:* 1–2 teaspoonfuls 3 times daily. Children half this dose.

*PACKING:* Bottles of approx. 180 gm.

*Samples and Literature from:*
**E. MERCK, DARMSTADT**
*Publicity Department:*
60, WELBECK STREET,
LONDON, W.1
Telephone: WELbeck 5555

*Sole Concessionaires for the United Kingdom and Irish Free State:*
**SAVORY & MOORE LTD.**
61, WELBECK STREET,
LONDON, W.1

# LIVOGEN

*The Reconstructive Tonic*

In addition to liquid extract of liver Livogen contains all the essential members of the Vitamin B complex, including Vitamin $B_1$, lactoflavine and nicotinic acid which are concerned in the physiological activity of the brain and nervous system. Deficiencies of these substances, although usually not marked, are common.

Livogen, therefore, is a valuable tonic in debilitated conditions particularly when symptoms of neuritis, neuralgia and other nervous dysfunctions are present.

*Sample on request*

THE BRITISH DRUG HOUSES LTD.
LONDON N.1

Telephone : Clerkenwell 3000
Telegrams : Tetradome Telex London

Lgn/S/63

# ALASIL

## Better Salicylate Therapy

WHATEVER be the season of the year, there is a wide sphere of utility for "Alasil," the improved form of salicylate medication. "Alasil" is a very definite advance on ordinary compounds of salicylic or acetyl-salicylic acid both in therapeutic efficiency and in freedom from unpleasant gastro-intestinal sequelæ. This high tolerability is due to the fact that "Alasil" is composed of calcium acetyl-salicylate—the least irritating of the salicylate compounds—and "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid.

A careful series of experimental tests has recently shown that "Alasil" is more completely absorbed than ordinary salicylate compounds, and that it is practically free from the risk of liberating free salicylic acid in the stomach. Wide clinical experience anticipated these findings by demonstrating that the use of "Alasil" can be pushed or prolonged to a much greater extent than ordinary salicylate compounds, and that it can be given with equal safety to children, adults, the aged, and patients with finely-balanced digestive capacities.

*A supply for clinical trial with full descriptive literature sent free on request.*

A. WANDER, LTD.,
Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
*Laboratories and Works:* King's Langley, Herts.

M269

## INSTRUCTION

Patients with constipation require instruction to appreciate the importance of diet, exercise and mechanical aids in their treatment. 'Petrolagar' is a valuable adjuvant to comprehensive treatment. It softens and lubricates the fæcal mass facilitating normal, easy evacuation.

*Samples on request*

# 'Petrolagar'

BRAND PARAFFIN EMULSION Regd.

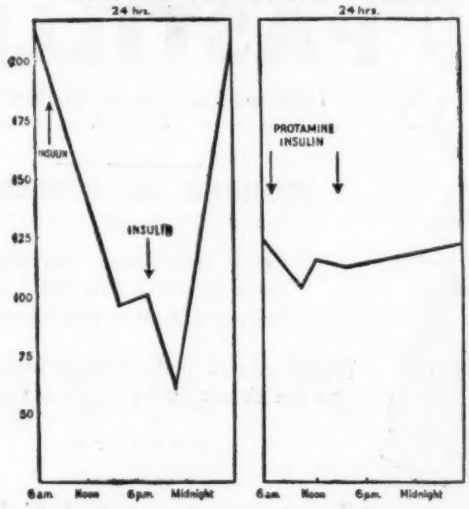
**JOHN WYETH & BROTHER, LTD.,**
**25 OLDHILL PLACE - - - - LONDON, N.16**
Distributors for PETROLAGAR LABORATORIES LTD.

# 'A.B.' PROTAMINE INSULIN

BRAND

*(with zinc)* **SUSPENSION**

Effect of Insulin without and with Protamine




The absorption of insulin injected in the form of 'A.B.' Brand Protamine Insulin (with Zinc) Suspension is much prolonged and closely resembles the natural secretion of the pancreatic islets. This insulin has a steady action and exerts a better control than that of ordinary insulin over the carbohydrate metabolism. The number of injections can be reduced, a lower total dosage is usually necessary, and the subjective symptoms of diabetes markedly improve.

**40 units per c.cm.**
5 c.cm. (200 units) 2/4
10 c.cm. (400 units) 4/6

**80 units per c.cm.**
5 c.cm. (400 units) 4/6

**INSULIN 'A.B.'** was the first British insulin offered commercially to the medical profession, and has a world-wide reputation for its strictly safeguarded sterility, its carefully standardised strength, its freedom from toxic reactions and its stability in hot climates.

***Full particulars will be sent free to members of the Medical Profession.***

Joint Licensees and Manufacturers:

**THE BRITISH DRUG HOUSES LTD.**
**ALLEN & HANBURYS LTD.**

# ★ PROSTATIC HYPERTROPHY

## *favourable reports by physicians*

**Many physicians have reported favourably on the treatment of this condition by the adequate administration of the prostate gland preparations of the British Organotherapy Co., Ltd.**

CLINICAL REPORT

The case of prostatic hypertrophy, that derived so much benefit from "Opocaps" Prostatic about five years ago, is still free from prostatic trouble. When the patient consulted me, he had been suffering from urinary difficulties and severe pain for several months and he soon reached a condition of complete retention. After catheterising him twice daily for about a month, I decided to employ "Opocaps" Prostatic and within fourteen days there was some improvement. At the end of a six weeks' course there was complete relief and the patient had no further trouble until about a year later, when there was a slight relapse, which was put right by only two weeks' treatment. Since then, about four years ago, he has suffered no urinary inconveniences.

M.B., Ch.B.

***"OPOCAPS" PROSTATIC** (B.O.C.) gr. 3 (Oral)*

Mitte - - - sig. 1 t.d.s., a.c. *(Supplied in boxes of 50 or 100 capsules.)*

***"OPOJEX" PROSTATIC** (B.O.C.) (for injection)*

Mitte - - - sig. 1 in die (or dieb. alt. when given concurrently with "Opocaps")

*(Supplied in boxes of 6 or 12 ampoules 2 c.c.)*

**★ BRITISH ORGANOTHERAPY CO., LTD.**

**22, GOLDEN SQUARE, LONDON, W.1**

**Telephone: Gerrard 7111** **Telegrams: "Lymphoid, London"**

Agents in India: **SMITH, STANISTREET & CO., LTD., CALCUTTA**

# EVANS' THROAT PASTILLES

*Made to a formula of the Liverpool Throat Hospital.*

**SOOTHING AND DEMULCENT**

**Being free from narcotics these pastilles are ideal for Speakers, Actors and Singers**

Physicians will find them very comforting to the throat during inclement weather.

*Price 1/- per tin.*

**Evans Sons Lescher & Webb Ltd.**

**LIVERPOOL and LONDON**

# ACRIFLAVINE 'B.D.'

The powerful antiseptic properties of acriflavine are universally recognised and are utilised in many branches of medical and surgical practice.

In addition to its issue as a pure substance, the following presentations of Acriflavine 'B.D.' are available :—

**CREAM**—for wounds, scalds and burns.

**EMULSION**—particularly valuable as a perineal dressing.

**PESSARIES**—for vaginal application, three sizes, for adults, children and infants.

**SUPPOSITORIES**—for rectal administration.

**SOLUTION** (concentrated)—for the rapid preparation of solutions for general surgical use.

**SOLUTION TABLETS**—for the rapid preparation of isotonic solutions.

A special non-toxic acriflavine is available — Acriflavine 'B.D.' (Intravenous) — for use in the treatment of gonorrhœa and various bacteræmic states.

*Literature on request*

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Telephone : Clerkenwell 3000 Telegrams : Tetradome Telex London

F1/S/44

# After Influenza Pneumonia and other Acute Infections

The general action of 'Bynin'Amara is manifested by increased tone of the nervous, muscular and cardiovascular systems. It stimulates the digestive organs, improves the flagging appetite, corrects anæmia and aids nutrition generally.

The marked asthenia and nervous depression which are prominent features of the post-influenzal state, yield rapidly to its influence. A course whenever there is any indication of lowered resistance is a valuable safeguard against infection.

In bottles at 2/-, 3/6, 6/6 and 12/-

*Descriptive literature and clinical trial sample on application.*

**BYNIN** *the effective tonic*

**AMARA**

ALLEN & HANBURYS Ltd., London, E.2

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Mitte - - - sig. 1 in die (or dieb. alt. when given concurrently with "Opocaps")

*(Supplied in boxes of 6 or 12 ampoules 2 c.c.)*

## ★ BRITISH ORGANOTHERAPY CO., LTD.

**22, GOLDEN SQUARE, LONDON, W.1**

**Telephone: Gerrard 7111** **Telegrams: "Lymphoid, London"**

Agents in India: **SMITH, STANISTREET & CO., LTD., CALCUTTA**

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*Made to a formula of the Liverpool Throat Hospital.*

**SOOTHING AND DEMULCENT**

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The marked asthenia and nervous depression which are prominent features of the post-influenzal state, yield rapidly to its influence. A course whenever there is any indication of lowered resistance is a valuable safeguard against infection.

In bottles at 2/-, 3/6, 6/6 and 12/-

*Descriptive literature and clinical trial sample on application.*

**BYNIN**

*the effective tonic*

**AMARA**

ALLEN & HANBURYS Ltd., London, E.2

Telephone: 2001 Bishopsgate (22 lines) Telegrams: "Greenburys Beth London"

# TERPEROIN

**(SQUIRE)**

Terperoin Elixir presents the therapeutic properties of Terpin Hydrate, Codeine, and Oil of Pine in a palatable and reliable form.

It is especially useful in the troublesome cough of

**PULMONARY PHTHISIS, EMPHYSEMA, LARYNGEAL CATARRH, and ACUTE and CHRONIC BRONCHITIS**

A very soothing Linctus for irritating Night Coughs

*One or two teaspoonfuls—undiluted—usually give instant relief*

**In 4-oz., 8-oz., and 16-oz. bottles**

*Also in Pastille form*

## SQUIRE & SONS, LTD.

*Chemists on the Establishment of the late King George V*

**413, OXFORD STREET, LONDON, W.1**

Telephone: MAYFAIR 2307 (2 lines) Telegrams: SQUIRE, WESDO, LONDON, W.1

# "ALKAGEN"

## An Effective Antacid and Carminative for Hyperacidity and Flatulence

**TABLETS**

"Alkagen" in the form of compressed tablets: one to three may be swallowed with water as required.
In bottles at **1/6, 2/6 4/6** and **8/6.**

**LOZENGES**

"Alkagen" in the form of a lozenge: one or two should be sucked slowly as required.
In boxes at **1/3, 2/9** and **5/-** per box.

**Easily Disintegrate. Very Soluble. Prompt in Effect. Do not cause evolution of carbon dioxide in the stomach.**

*Descriptive literature and a clinical trial sample will be sent post free on application.*

## ALLEN & HANBURYS LTD., LONDON, E.2

Telephone: Bishopsgate 3201 (12 lines) Telegrams: "Greenburys Beth London"

# THE EMERGENCY TREATMENT of ACCIDENTAL INJURIES

THE extensive work carried out by Professor Löhr on the Cod Liver Oil treatment of accidental injuries such as severe contused and lacerated wounds and burns of all degrees has now been confirmed by an English worker (vide Lancet, 1935, No. 5841, p. 290).

The outstanding advantage of this method is the injury having been thoroughly cleansed at the outset it is unnecessary to remove the dressings for 7 to 10 days, consequently the primary healing process is undisturbed. It will be found that there is no pus formation and a spectacular minimum of cicatrization.

Professor Löhr's work has shown the necessity for a standardized Vitamin content of the Cod Liver Oil used.

Unguentolan Ointment is prepared and standardized according to Professor Löhr's formula and methods.

*For special Brochure and clinical sample apply to :*

*British Agents*—**C. R. HARKER, STAGG & MORGAN Ltd., Emmott St., LONDON, E.1**

**HEYL & CO.** **BERLIN N 65**

# "Ty·phoo" TEA *is used in the homes of over 18,000 Doctors!*

Delicious "Ty.phoo", is so mild and pure it will not harm the most delicate digestion. This because "Ty.phoo" possesses none of the bitter astringency which is so prevalent in the common coarse varieties.

For over 30 years "Ty.phoo" has retained the confidence of the medical profession as testified by the hundreds of letters which are upon our file. Here is one to hand:

*"I have been using 'Ty.phoo' Tea for over 20 years. I started then because of Indigestion and it is the only tea that I can drink without any after effects."*

**Write to:**

**Sumner's Ty.phoo Tea Ltd.,**

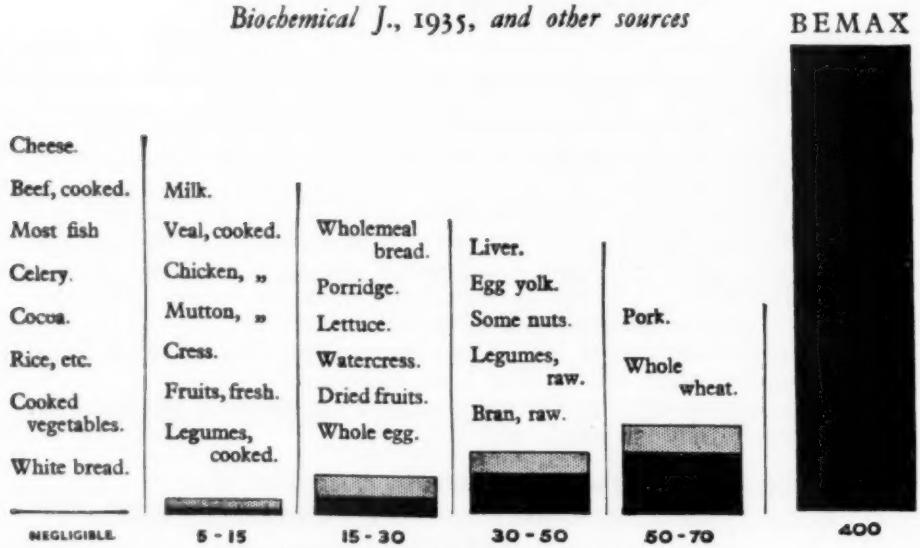
BIRMINGHAM 5, for a FREE sample. (This offer applies only to the British Isles. We regret we cannot send "Ty.phoo" abroad.)

300 to 700 samples are sent daily to patients at the direction of medical men and women.

*Beware of Imitations!*

# VITAMIN $B_1$ IN FOODS

*Biochemical J., 1935, and other sources*




*The figures represent International Units per ounce.*

# calcium vitamin D granules

Supplies of calcium and phosphorus are essential to the action of vitamin D. Whereas ordinary calcium phosphate contains 1 part by weight of phosphorus to 2 of calcium, dicalcium phosphate ($CaHPO_4$) contains 3 parts of phosphorus to 4 of calcium. "Calcydic" Granules are delicious.

Each teaspoonful contains—

| | |
|---|---|
| Dicalcium phosphate | 7½ grains |
| Vitamin D | 1,500 units |
| Glucose, Chocolate and Cane Sugar | |

These granules may be given to children or adults, prophylactically or therapeutically, in rickets, pregnancy, lactation, osteomalacia, menorrhagia, convalescence, chilblains, and urticaria.

**In Tins of ¼ lb. 2/3, and 1 lb. 4/-**

*Descriptive literature and clinical trial sample will be sent on request*

Manufactured in England by

**ALLEN & HANBURYS Ltd., LONDON, E. 2**

Telephone: 3201 Bishopsgate (12 lines) Telegrams: "Greenburys, Beth London."

# "Vitamin $B_1$ deficiency an outstanding fault

## in the diet of many millions of people"

(*B.M.J.*, 16 *Oct.*, 1937, *p.* 753)

The reduction in Vitamin $B_1$ intake, due to changes in dietary habits during the last hundred years, normally amounts to at least 50 per cent., and may be as much as 70 per cent. It has been demonstrated, both experimentally and clinically, that a shortage of Vitamin B acts as a limiting factor in the maintenance of health and nutrition, and often results in gastro-intestinal disorders, loss of appetite, indigestion, constipation and, if long continued, contributes to neuritis and arthritis.

The logical way to rectify such shortage is to restore to the diet the Vitamin B-containing substance whose removal is responsible for the deficiency.

This substance is available in the form of Bemax.

For years it has been the policy of the proprietors of Bemax to ensure its Vitamin $B_1$ activity by biological assay of *every day's output*. So far as is known, Bemax is the only food product for which such a claim is or can be made.

The quantity of Vitamin $B_1$ supplied by the normal daily dose of Bemax—one tablespoonful—is 200 International Units, an amount sufficient to raise a deficient diet to an optimal level.

The normal daily dose of Bemax supplies, in addition to Vitamin $B_1$, significant quantities of Vitamins $B_2$ and $B_6$, Copper, Iron and Phosphorus as well as rich quantities of Vitamin E and other essential dietary elements.

Bemax is an entirely natural product consisting only of stabilised wheat germs selected for their Vitamin $B_1$ activity with no addition whatsoever. Clinical sample and literature on request. Vitamins Ltd. (Dept. L.67), 23, Upper Mall, Hammersmith, W.6.

# Habitual Abortion and Dietary Sterility

The increasing use of Vitamin E for habitual abortion and sterility of dietary origin demands a wheat germ oil of proven high activity and of stable Vitamin value. Such an oil is available for the medical profession in Fertilol.

# FERTILOL

**Wheat Germ Oil Capsules**

*A highly active source of Vitamin E.*

*A complimentary box of Fertilol Capsules and brochure sent on request.*

**Vitamins Ltd.,**
**(Dept. L. 67), Upper Mall, London, W.6.**

Medical opinion is unanimous—in cases of extreme weakness, strength must be restored *without strain*. In the most critical stages of the patient's illness Brand's Essence has consistently revived strength *safely*, within minutes. Brand's Essence forms no irritating solids. Digestion proceeds quickly and easily, no strain is imposed upon the system, and Brand's life-giving protein is available almost immediately for restoring strength. Its use in extreme post-operative weakness and after childbirth will be readily appreciated. Again, in high fever, Brand's Essence is specially useful because it contains no irritant meat fibre or salty matter and *does not cause thirst*.

**DOCTORS AGREE**

**BRAND'S ESSENCE**
**SUSTAINS STRENGTH SAFELY**

# BRAND'S Chicken or Beef ESSENCE

BRAND & CO. LTD., SOUTH LAMBETH ROAD, LONDON, S.W.8

# "Your product, Tampax has been tested..."

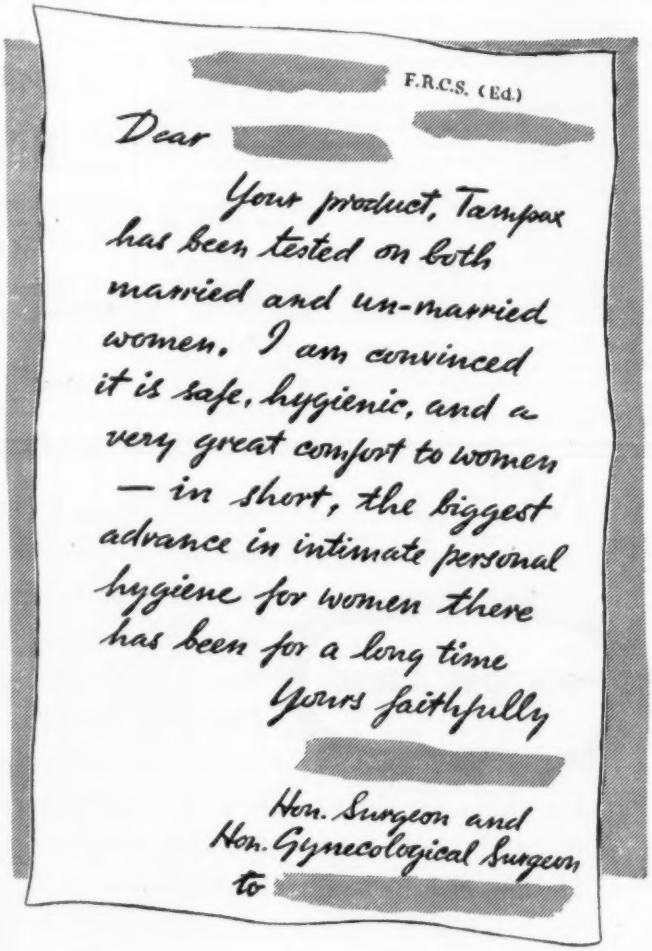
## WRITES A GYNECOLOGICAL SURGEON

THE principle of Tampax is that of the vaginal tampon, which every doctor knows to be safe and efficacious for absorbing cervical discharges at the site. Dispensing with sanitary towels, Tampax spares the patient much local discomfort, and minimises risk of infection.

Tampax is made of long-fibred surgical cotton-wool which has been sterilised and highly compressed. Each tampon has an absorption capacity of 1-1½ ounces. It is individually sealed within its own patented applicator which enables the user to insert it in the proper position without contact with the hands. The tampon is easily removed by means of a cord sewn through the cotton by an exclusive stitching process which makes disintegration impossible. The tampon being contained within the vagina away from contact with urethra, contamination from this source is minimised. Infections of rectal origin are likewise avoided. There is complete elimination of labial irritation. Odour is almost entirely prevented, as the menstrual fluid does not come into contact with the air.

Tampax may confidently be recommended by Physicians for use by married women during normal menstruation. Its use by unmarried girls should not be advocated when the size of the hymeneal aperture would cause difficulty in insertion and withdrawal.

We will be glad to send doctors a full-size packet of Tampax, together with full details on request to Tampax Ltd., 10 Bolton Street, London, W.1.



F.R.C.S. (Ed.)

Dear

Your product, Tampax has been tested on both married and un-married women. I am convinced it is safe, hygienic, and a very great comfort to women — in short, the biggest advance in intimate personal hygiene for women there has been for a long time

Yours faithfully

Hon. Surgeon and
Hon. Gynecological Surgeon
to

★ *This is one of many unsolicited testimonials from members of the medical profession. For reasons of professional etiquette it is reproduced in formal script and not the original handwriting.*

TAMPAX LTD., 10, BOLTON STREET, LONDON, W.1

# COMMON CONSTIPATION DURING PREGNANCY

## *How regularity can be maintained without aperients*

IT is the experience of many leading obstetricians that, by increasing the intake of "bulk" in the diet, regularity can almost invariably be maintained throughout pregnancy without recourse to aperients.

For this reason, Kellogg's All-Bran is especially to be recommended in the diet of expectant mothers.

All-Bran is purified wheat bran in the form of an attractively crisp breakfast cereal. It provides the same type of fibrous bulk as that derived from fruit and vegetables but has this striking advantage: the fibrous matter in bran, unlike that of vegetables, breaks down less easily during the process of digestion and is therefore far more effective in promoting regular and thorough action of the bowels.

### *The function of All-Bran*

The great value of All-Bran is that it absorbs water and softens like a sponge. This water-softened mass gently but effectively aids elimination. Eaten regularly, All-Bran promotes normal colonic peristalsis and results in easy, natural evacuation of the bowel contents without strain on the pelvic organs. Moreover, its Vitamin B and iron content make it a particularly valuable food during pregnancy and lactation.

Eaten daily, All-Bran ensures comfortable regularity even during the later stages of pregnancy when the tendency to common constipation is increased by growing pressure on the internal organs. During the lying-in period it is also invaluable in aiding a quick return to normal habits and as a means of avoiding harmful strain on weakened muscles.

All-Bran may be served as a cereal with milk or cream, or cooked into appetising scones, bread, etc. It may also be taken in combination with other cereals or sprinkled over salads and other foods. To ensure maximum effectiveness, plenty of fluid should be taken, preferably between meals. All-Bran is obtainable from all reliable grocers. A packet will be sent free on request to any qualified practitioner. Inquiries should be addressed to: Kellogg Company of Great Britain Ltd., Stretford, Manchester.

*An excellent breakfast for the expectant mother consists of All-Bran, with milk or cream, followed by fresh fruit or salad. To drink — weak, freshly-made tea, milky coffee or fruit juice.*

FORMULA

INTESTINAL GLAND EX..0gr. 05
BILIARY EXTRACT.....0gr. 10
AGAR AGAR.....0gr. 05
LACTIC FERMENTS....0gr. 05
Fiat Tablet 0.35grms.
INITIAL DAILY DOSE
2 Tablets.

TAXOL

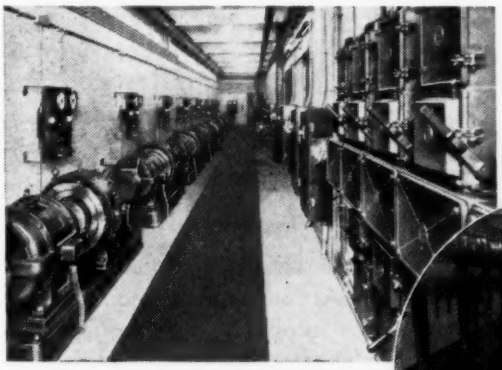
BIOLOGICAL TREATMENT OF
CONSTIPATION
NON-HABIT FORMING

CONTINENTAL LABORATORIES LTD. 30. MARSHAM STREET, LONDON, S.W.1.

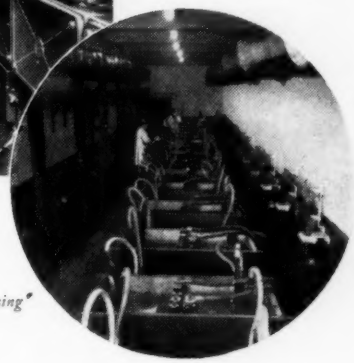
# *M*aking Milton, the non-caustic hypochlorite . . . *in stable form and at standard strength . . .*

You know Eusol. But do you know Milton? Milton is a hypochlorite antiseptic of a far more satisfactory nature than Eusol, which is in general hospital use. Whereas Eusol must be freshly made each day, Milton (prepared by electrolysis, which gives it increased chemical activity) is subjected to a process which, for all practical purposes, ensures its complete stabilisation for at least two years if kept in non-actinic containers.

Milton possesses all the remarkable germicidal and cleansing properties of the hypochlorite class of antiseptic, yet contains no caustic elements in its composition. In London alone, 47 hospitals now employ Milton in general use.



*Battery of motor generators used for the manufacture of Milton by a special electrolytic process.*



*The electrolysing tanks*

## INDICATIONS

GARGLING. As a prophylactic measure or as routine treatment of infection.

CATARRH. A solution not exceeding 5% is most efficacious when applied by spraying. The special Milton Nasal Spray (3/- from all chemists) may be prescribed.

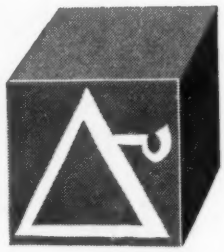
DOUCHING. Milton is alkaline, deodorant, germicidal, miscible with mucus and pus; harmless to delicate internal membranes.

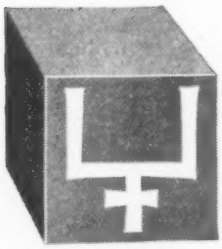
WOUNDS, CUTS, SCALDS. The hypochlorite characteristics of Milton are invaluable for cleansing and sterilising.

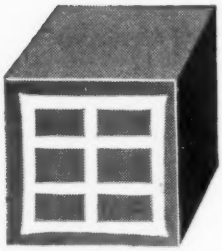
*Members of the Medical Profession are invited to write to Research Dept., Milton Proprietary Ltd., John Milton House, London, N.7, for free professional sample bottle of Milton and informative literature and copies of independent laboratory reports . . . or to arrange a visit to John Milton House.*

# THE BUILDING BLOCKS OF LIFE

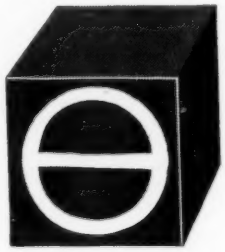
VINEGAR

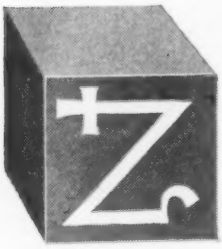

ALKALI


POTASSIUM


WATER

URINE


SALT


CALCIUM

ALKALINE SALT

Foods, the building blocks of life, are not devoid of demands upon the organism. Some of them, necessary for cell-growth and repair, produce an acid residue that must be neutralized

Normally, the alkaline ash foods are adequate for this purpose. But when acidosis complicates disease, food is not enough. The administration of alkalies is necessary.

Acidosis of the non-ketogenic type readily yields to alkalization with Alka-Zane, as it supplies sodium, potassium, calcium and magnesium in proper proportions for quickly replenishing and efficiently maintaining the alkali reserve.

Alka-Zane contains carbonates, phosphates and citrates only — no tartrates, lactates or sulphates and no sodium chloride.

Alka-Zane is supplied in 4-oz. bottles.

WILLIAM R. WARNER & CO. LTD.
Power Road, Chiswick, London, W.4

*The symbols depicted above were among those used in antiquity.*

# Alka-Zane *for* Acidosis

*MADE IN ENGLAND*

IN
• ANAEMIA
• CONVALESCENCE
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POLYHORMONAL BIOLOGICAL TONIC FOR ORAL ADMINISTRATION

HEMOSTYL
TRADE MARK BRAND.

PURE HORSE SERUM OF SECOND BLEEDING

AMPOULES (Oral)
1 to 2 per day — before breakfast
*in a quarter glass of cold water*

SYRUP
1 to 3 tablespoonfuls daily before meals
*in a quarter glass of cold water*

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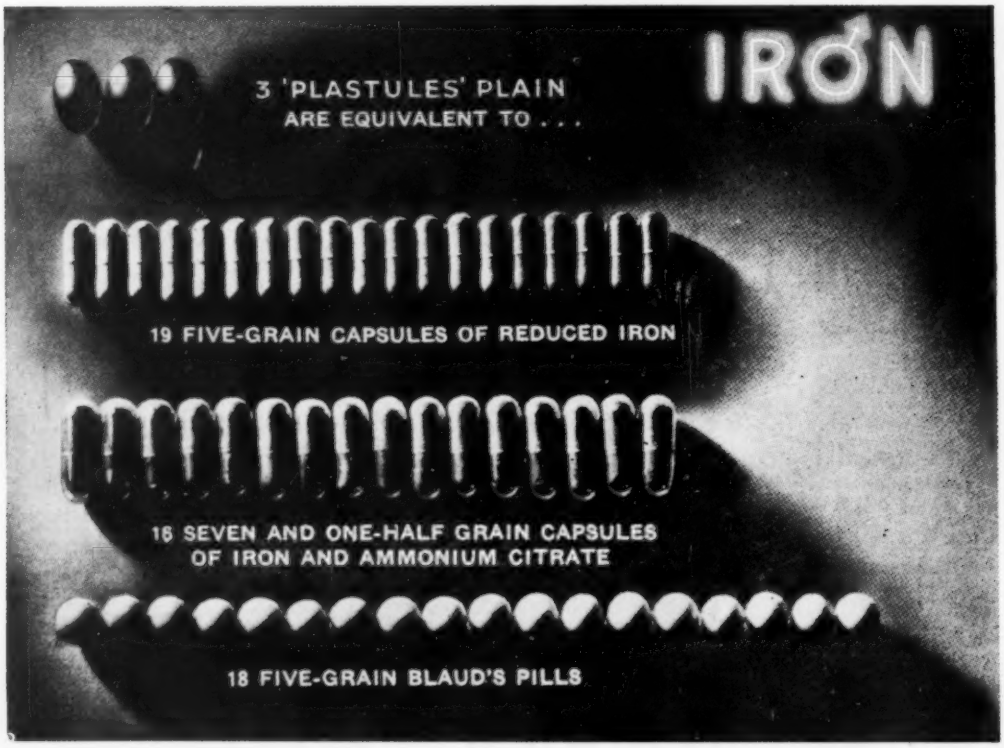


# 'PLASTULES' BRAND HÆMATINIC COMPOUND

*IMPROVED IRON TONIC*

**Leading authorities are of the opinion that large doses of iron are no longer necessary for the successful treatment of hypochromic anæmia and debility. Independent investigations have shown that 'Plastules' yield rapid clinical response, equivalent to the results obtained from massive doses of other forms of iron. The average patient requires only three 'Plastules' Plain daily which obviates the unpleasant effects usually associated with massive iron feedings. Prescribe 'Plastules' for your patients and note the immediate results—appetite and colour return rapidly.**

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## SYRUP. AMMONII MANDELAT. (HEWLETT'S)

An elegant preparation of Ammonium Mandelate in the form of a sweetened, orange-flavoured syrup.

Two fluid drachms contains three grammes of Mandelic Acid as the Ammonium salt. An efficient treatment for cases of Urinary Infection. No Ammonium Chloride or other additional drug is necessary in normal cases. May be given at all ages.

*Dose for Adults.*—Two teaspoonfuls four times daily with a little water.
Circular with full particulars free on application.

## LIN. BETULÆ CO. (HEWLETT'S)

Therapeutically equivalent to several times its weight of Sodium Salicylate without causing headache, tinnitus, &c. Has proved most useful in the external treatment of pure Rheumatism, Sciatica, Lumbago, &c. The external dose is about one drachm rubbed over the affected parts.

In 5, 10, 22, 40, and 90 oz. Bottles.

## MIST. PRUNI VIRG. CONC. (HEWLETT'S)

A valuable stimulant and expectorant cough mixture, containing Carbonate of Ammonium, Ipecacuanha, Senega, Squill, and Syrup of Wild Cherry Bark. Quite free from Morphine, Opium, or poisons, so can be safely administered to children.

*Dose:* 1 to 2 drachms diluted.
In 22, 40, and 90 oz. Bottles only.

## UNG. IODERMIOL TRADE MARK

It has been found most useful for Enlarged Glands, Rheumatic and Gouty Affections, Lumbago, Sciatica, Swollen and Stiff Joints, Skin Diseases, &c.

UNGUENTUM IODERMIOL et METHYL SALICYL. (HEWLETT'S)

Containing about 5% of Iodine, in a stainless non-irritating form, together with 5% Methyl Salicylate. Useful in the treatment of Enlarged Joints, Synovitis, Rheumatoid Affections, &c.

## VERONIGEN TRADE MARK

A liquid preparation of the Hypnotic Barbitone or Diethyl-Barbituric Acid has long been desired as a useful means of procuring sleep. When given in reasonable doses it is claimed that it does not produce any toxic symptoms whatever, and in ordinary cases of insomnia one fluid drachm of Veronigen is quite sufficient dose for an adult.

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*For Nervous Sleeplessness in Children.*—10 to 20 minims diluted.

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A favourite and economical cough mixture, containing Hydrobromic Acid, Chlorodyne, Dilute Hydrocyanic Acid, &c. Most successful in allaying post-influenza coughs that are so persistent. One or two ounces diluted with water to make eight ounces forms one of the most effective and elegant mixtures that can be made, and certainly the least expensive.

In 22 oz., 40 oz., 4½ lb., and 8 lb. Bottles only.

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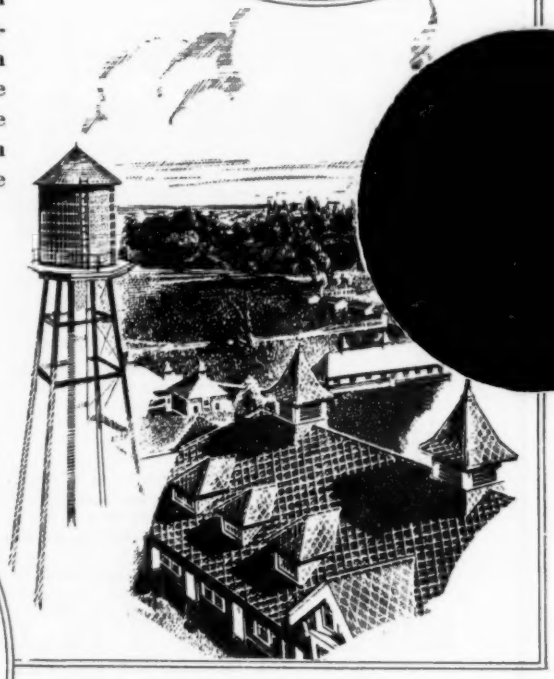
# PROGRESS IN Biological Therapy

Biological investigation was commenced by Parke, Davis & Company forty years ago. In 1898 the firm produced the first 2000-unit per c.c. diphtheria antitoxin ever obtained. Biological work developed so extensively that, soon after, a biological farm was established for the production of serums, antitoxins, etc., and from that time Parke, Davis & Company have built up a reputation for biological products that is without equal. Progress in this department of medicine is active, and constant study is directed towards the elucidation of the many problems relating to serum production; e.g., improvements in culture media, reduction of protein content and volume of dose of antitoxins. The introduction of an active meningococcus antitoxin is one of the firm's recent achievements.



**PARKE, DAVIS & CO.**
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*Laboratories: Hounslow, Middlesex.*
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# Type all pneumonias—

## PNEUMOCOCCUS TYPING

### RAPID—ACCURATE

THE NEUFELD METHOD of type diagnosis has made specific serum therapy practicable.

Typing directly from sputum frequently permits a type diagnosis within a few minutes.

*Early* specific treatment—so vital to successful serum therapy—is possible only when the pneumococcus type is determined *early*.

Therapeutic sera are now available for a greater number of pneumococcus types. Approximately 75% of all adult pneumococcus pneumonias can be treated by means of specific sera for Types 1, 2, 4, 5, 7, and 8.

"Diagnostic Antipneumococcic Sera (Rabbit), *Lederle*" for typing by the Neufeld reaction, are available in the following packages:

—1.0 CC. VIAL .... .... .... 4s. 1d.

For each of the monovalent types and for the following combinations:—

Mixture "A"—containing Types 1, 2 and 7
Mixture "B"—containing Types 3, 4, 5, 6 and 8
Mixture "C"—containing Types 9, 12, 14, 15 and 17
Mixture "D"—containing Types 10, 11, 13, 20, 22 and 24
Mixture "E"—containing Types 16, 18, 19, 21 and 28
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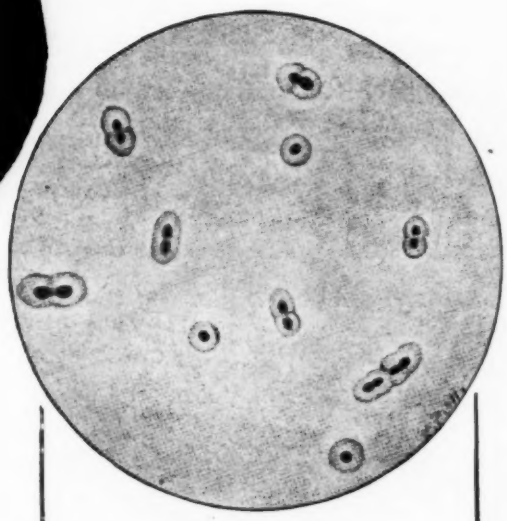

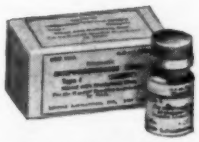

DIAGNOSTIC ANTIPNEUMOCOCCIC SERA

*Lederle*

FOR TYPES I TO XXXII

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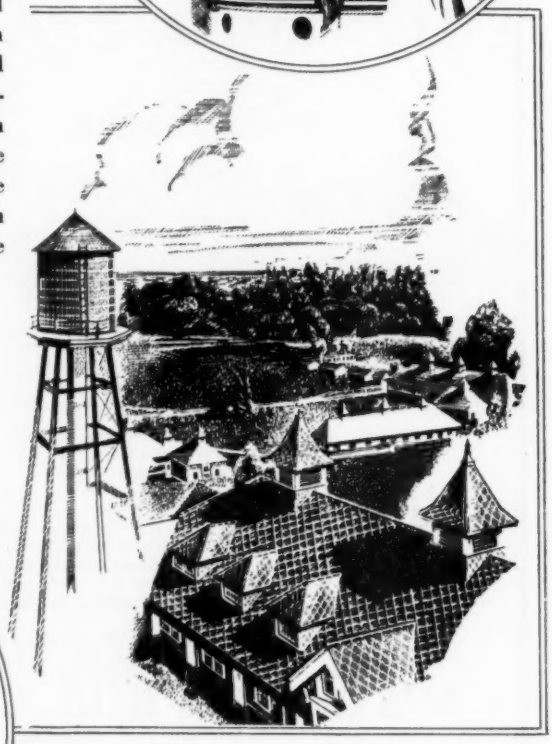

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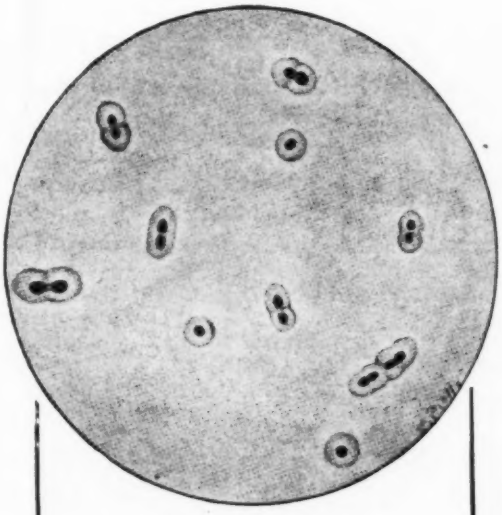

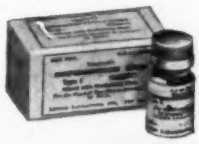

DIAGNOSTIC ANTIPNEUMOCOCCIC SERA

*Lederle*

FOR TYPES I TO XXXII

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There is a vast amount of evidence of the most positive character proving the efficacy of 'Angiers' in subacute and chronic bronchitis. It not only relieves the cough, facilitates expectoration, and allays inflammation, but it likewise improves nutrition and effectually overcomes the constitutional debility so frequently associated with these cases. Bronchial patients are nearly always pleased with 'Angiers' and often comment upon its soothing, "comforting" effects.

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**Volpar is the outcome of exhaustive research extending over a period of ten years' continuous investigation; it has been subjected to stringent laboratory tests which show it to be far more powerful than any other spermicidal preparation in use.**

**Volpar** is issued in two forms: **Volpar Gels**—soluble suppositories primarily intended for use alone, or (for maximum safety) with a cap or sheath: **Volpar Paste**—a non-greasy paste for the lubrication of occlusive caps and sheaths or condoms.

**Volpar Gels and Volpar Paste, in addition to being thoroughly efficient, are æsthetically unobjectionable.**

*Literature on request*

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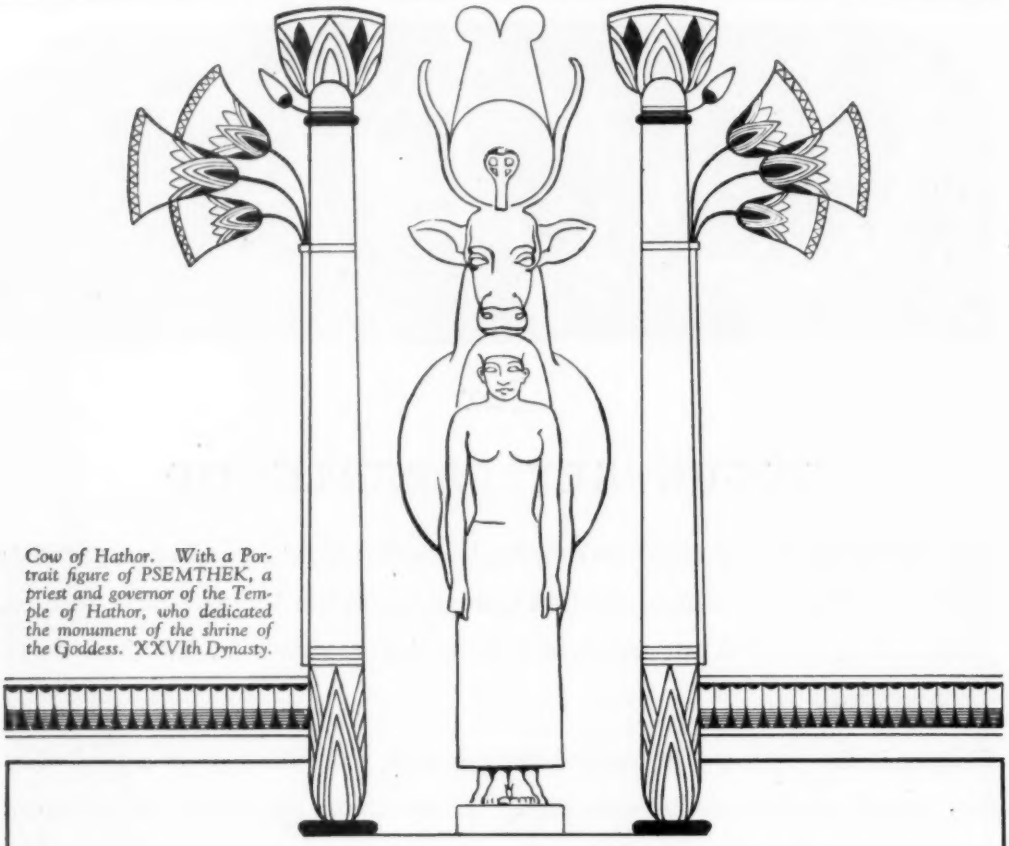

*Cow of Hathor. With a Portrait figure of PSEMTHEK, a priest and governor of the Temple of Hathor, who dedicated the monument of the shrine of the Goddess. XXVIth Dynasty.*

# The Natural Aid to Nutrition

WHEN the general nutrition of the body is below normal as a result of dietary errors or of debilitating diseases, the use of 'Ovaltine'—a true physiological tonic—is of greater and more lasting value than that of chemical stimulants. It adequately reinforces and renders safe the ordinary dietary; is a powerful source of energy and assists tissue regeneration.

A considerable measure of the value of 'Ovaltine' as a highly satisfactory accessory food and aid to nutrition, is due to the fact that it presents the more important vitamins A, B (complex) and D in active condition as well as readily assimilable calcium, phosphorus and iron. 'Ovaltine' is not only highly nutritious, but really delightful to the taste and particularly easy of digestion.

# 'OVALTINE'

*A liberal supply for clinical trial sent free on request.*

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*Sodium Ethyl Mercuri Thiosalicylate*

## *In the Operating Room*

'Merthiolate' brand sodium ethyl mercuri thiosalicylate is an antiseptic with properties in keeping with the highest standards of aseptic surgical technique.

Tincture 'Merthiolate,' an alcohol-acetone-aqueous solution, is particularly suitable for preoperative preparation of the intact skin.

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*The rapidly-acting ergot alkaloid*

Action is pronounced by mouth or by injection. Valuable after parturition. Parenterally, it effectively controls post-partum hæmorrhage. The alkaloid is notable for a very high degree of purity. Its use facilitates the safe administration of known, adequate doses.

*By mouth. Dose,* 0·5 *mgm. to* 1 *mgm.*

TRADE MARK 'TABLOID' BRAND ERGOMETRINE 0·5 mgm.

TRADE MARK 'WELLCOME' BRAND SOLUTION OF ERGOMETRINE

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TRADE MARK 'TABLOID' BRAND HYPODERMIC ERGOMETRINE

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TRADE MARK **'WELLCOME'** BRAND

## ERGOTOXINE ETHANESULPHONATE

Originated and introduced by Burroughs Wellcome & Co. and now adopted in the official assay of certain ergot preparations (B.P. 1932).

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# REFINED DIPHTHERIA ANTITOXIN —GLOBULINS

High concentration has led to presentation of unit doses in LESS THAN HALF the usual volume of fluid.

Amount of protein is correspondingly reduced.

Liability to cause sickness and serum rash is lowered.

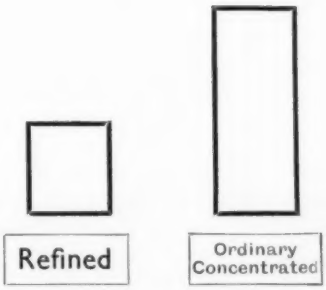


Diagram showing relative fluid volume of equivalent doses of *Refined* and Ordinary Concentrated Antitoxin.

Although embodying these improvements the *Refined Antitoxin* is available at the same prices as the Concentrated Antitoxin.

*Literature to Medical Men, on request*

*Prepared at*
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LANGLEY COURT, BECKENHAM, KENT

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Concentrated
2,000 units per cc.

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3,000 (or more) units per cc.

**Streptococcus Antitoxins—**
Erysipelas
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Scarlatina

**Tetanus Antitoxins—**
Prophylactic
Curative

*Products of*

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# HORMONE TREATMENT

## in imperfect descent of the testis

"The disadvantage of waiting for spontaneous descent in any except the retractile type is that if an anatomical abnormality be present, the diagnosis of which may deceive even the elect, spontaneous descent can never occur. Waiting until after puberty in the hope of spontaneous descent is in such a case an unnecessary and unjustifiable delay. Analysis of the results in the present series shows that if in cases of doubt a retained testis does not respond after six months of hormone treatment, it is highly probable that there is an anatomical abnormality." *THE LANCET, October 29, 1938. Pages 983-987*

# PREGNYL

*Samples and literature gladly sent on request.*

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A non-toxic circulatory and respiratory stimulant for oral, hypodermic, intravenous and intracardiac administration, improves the pulse and blood pressure, reinforces the contractions of the myocardium.

Increases the respiratory amplitude, activates the ventilation of the lungs causing cyanosis to disappear.

*Indicated in collapse, coma, accidents during narcosis, poisoning by coal gas, narcotics and barbitone derivatives, fatigue phenomena, etc.*

CORAMINE LIQUID FOR ORAL USE
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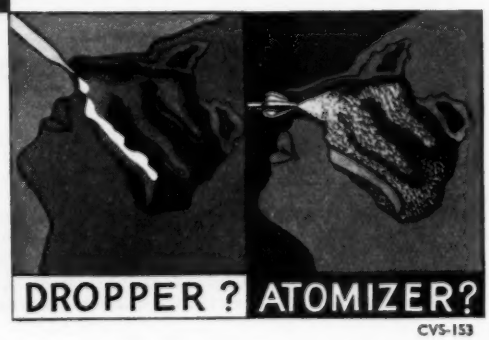


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This Registered Hospital is situated in 120 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble, temporary patients, and certified patients of both sexes, are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

### WANTAGE HOUSE

This is a Reception Hospital, in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the most modern treatment of Mental and Nervous Disorders. It contains special departments for hydrotherapy by various methods, including Turkish and Russian Baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical Baths, Plombières treatment, &c. There is an operating Theatre, a Dental Surgery, and X-ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High Frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research.

### MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupation therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

### BRYN-Y-NEUADD HALL

The Seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout fishing in the park.

At all Branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard court), croquet grounds, golf course, and bowling greens. Ladies and gentlemen have their own gardens and facilities are provided for handicrafts such as carpentry, &c.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

# CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

***For the treatment of MENTAL DISORDERS.***

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens. Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

**The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.**

# FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Colne, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

*For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9*

# THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

*Med. Supt.:* GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

# PRIOR PLACE SANATORIUM

## HEATHERSIDE, CAMBERLEY, SURREY.

## FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

# PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." Telephones: Rodney 2841 and 2842.

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

# THE MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5.

Telephone: RODney 3841

A CLINIC instituted by the London County Council for treatment of Nervous and Curable Mental Disorder. Voluntary patients *only* received.

New Out-patients.—Men: Mondays and Thursdays, 2 P.M. Women: Tuesdays and Fridays, 2 P.M. Children: Mondays and Fridays, 10 A.M. In-patients (*a*) 235 beds (both sexes) in wards or separate rooms, including 35 beds in a ward of King's College Hospital which is in use as a temporary annexe of the Maudsley Hospital; (*b*) a special ward (including some private rooms) for those patients of each sex who are paying the full cost and are otherwise suitable. TERMS—£5 a week, but in the case of patients with a legal settlement in the County of London a less sum may be charged according to means.

Terms include (with rare exceptions) all forms of treatment, for which there are exceptional facilities as there is a Staff of Consultant Specialists, and the Central Laboratory of London County Mental Hospitals is attached to the Hospital. Inquiries of EDWARD MAPOTHER, M.D., F.R.C.P., F.R.C.S., Medical Superintendent.

# THE ROYAL EARLSWOOD INSTITUTION

## FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

*FOR THOSE REQUIRING CONTROL* with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

*RECREATIONS:* Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344; or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4, *'Phone:* CITY 4697.

# CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

# VALE OF CLWYD SANATORIUM

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

# NORTHUMBERLAND HOUSE

GREEN LANES.

## FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

*Telephone:* Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

# CRICHTON ROYAL, DUMFRIES

## For NERVOUS AND MENTAL DISORDERS

This hospital has every facility for complete investigation of the above conditions, and provides all forms of modern treatment, including psychotherapy, physiotherapy, occupational and recreational therapy. Cases of alcoholism and drug addiction are admitted. The Physiotherapy Department has separate units fully equipped for X-ray work, heliotherapy, short-wave therapy, electro-therapy, and hydrotherapy (swimming bath, prolonged baths, Scotch and Vichy douches, Plombières treatment, electric and Turkish bath cabinets, etc.). There is a fully equipped gymnasium under qualified instructors. Facilities are provided under special recreational therapists for all indoor and outdoor games, including golf course, cricket, football and hockey grounds, lawn tennis and squash courts, croquet and bowling greens.

The Hospital has its own Church, Library, Cinema and Hairdressing Saloon. Terms include regular motor drives.

Private rooms, suites, or villas are available, and special nurses can be provided. The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens and orchards.

As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

*For prospectus, necessary forms, and further information apply to:—*

Physician Superintendent, **P. K. McCowan**, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119.

## COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

## CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

*Resident Physicians*—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

*Telephones*—STARCROSS 59 and TEIGNMOUTH 289

## THE OLD MANOR SALISBURY

*A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.*

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

**CONVALESCENT HOME AT BOURNEMOUTH** Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217

## HAYDOCK LODGE,

### NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

## THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

## CLARENCE LODGE

### CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

*Station:* Clapham Common Tube.

*Phone:* Tulse Hill 4913

Apply MISS THWAITES.

## RUSSELLS

Hemel Hempstead Road,

### WATFORD

Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

## MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

## STRETTON HOUSE,

Church Stretton, Shropshire.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

## HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

### HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO FOUR GUINEAS PER WEEK.

For further particulars apply to the Medical Director, W. J. T. KIMBER, L.R.C.P., D.P.M.

### ST. ALBANS, HERTS

## FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

*Apply:* Dr. MADELINE R. LOCKWOOD,

*phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

# SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

**For Mental Cases with or without Certificates.**

*Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).*

For forms of admission &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

**NERVOUS & MENTAL AFFECTIONS**

*Ladies only received*

## The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

# BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

*For further particulars apply—*

Dr. ERNEST ROLLINS, Resident Physician.

*Tel.:* Amherst 1642

# EPPING HOUSE

**LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.**

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

*Telephone:* Essenden 12. *Apply,* J. C. BAKER, M.B.

# CHISWICK HOUSE,

**PINNER, MIDDLESEX.**

**Telephone: PINNER 234.**

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

## CITY OF LONDON MENTAL HOSPITAL

**Near DARTFORD, KENT.**

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

# DR. BINSWANGER SANATORIUM BELLEVUE

KREUZLINGEN — SWITZERLAND

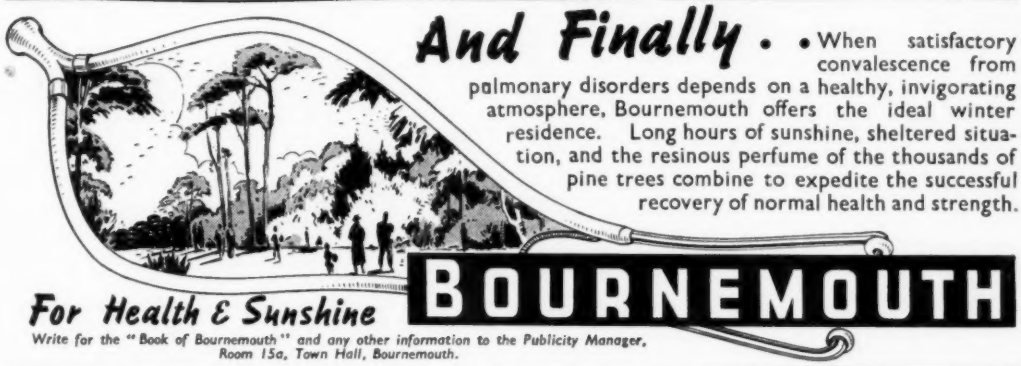
**for Nervous and Mental cases**

as well as all kinds of addiction

(Insulin shock treatment)

Doctor in charge: DR. LUDWIG BINSWANGER

Prospectus on application to the Management



## And Finally . . When satisfactory convalescence from pulmonary disorders depends on a healthy, invigorating atmosphere, Bournemouth offers the ideal winter residence. Long hours of sunshine, sheltered situation, and the resinous perfume of the thousands of pine trees combine to expedite the successful recovery of normal health and strength.

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*Write for the "Book of Bournemouth" and any other information to the Publicity Manager, Room 15a, Town Hall, Bournemouth.*

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THE THERMAL ESTABLISHMENT WHOSE TREATMENT BY THE FAMOUS **MUD BATHS** WITH APPROPRIATE DIET IS UNRIVALLED FOR **RHEUMATISM.**

**OPEN ALL THE YEAR ROUND.**

Through trains from Paris. On the main line to Biarritz and Pau.

*For information or literature, apply to:*

FEDERATION OF THE HEALTH RESORTS OF FRANCE, BRITISH MEDICAL ASSOCIATION HOUSE, TAVISTOCK SQUARE, LONDON, W.C.1

or FRENCH RAILWAYS—NATIONAL TOURIST OFFICE, 179, PICCADILLY, LONDON, W.1

or SOCIÉTÉ DES EAUX THERMALES, DAX (FRANCE)

**THE CLINIC**

**20 Devonshire Place**
**London, W.1**

*Tel.: Welbeck 4444 (20 lines)*

**A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES**

Fees 10 gns. to 18 gns. per week (Average—14 gns.).
8 Operating Theatres.
150 State Registered Nurses.
2 Resident Medical Officers (for emergencies).
Patients only received under the supervision of their own Medical Practitioner.
Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

**Smedley's**
Great Britain's Greatest Hydro
**Matlock**

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.
*Resident Physicians:* G. C. R. HARBINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIS, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.**
*Illustrated Brochure C.J. on request.*
*'Phone:* Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

**RHEUMA SPA, KINMEL HALL,**
**ABERGELE, NORTH WALES**

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

*IDEAL WINTER QUARTERS—REDUCED RATES*

## ROYAL NAVAL DENTAL SERVICE

Applications are invited for appointment to Commissions as DENTAL OFFICERS in the Royal Navy.

Candidates, who must be British subjects below the age of twenty-eight years, must hold the Degree or Diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts. Unmarried candidates are preferred. No examination in professional subjects will be held, but candidates will be required to attend at the Admiralty for interview, and for physical examination as to their fitness for service in any part of the world.

Successful candidates will be appointed to Short Service Commissions as Surgeon-Lieutenants (D) and will receive a grant of £50 towards the cost of providing the necessary uniform on entry. Vacancies in the permanent list will be filled by selection from among officers holding Short Service Commissions who desire to make the Royal Naval Dental Service their permanent career. Officers not transferred to the Permanent List will, on the termination of their short service engagement after six years' service, be eligible for a gratuity of £1000.

Opportunities are available for officers on the Permanent List for post-graduate study. The assistance of private income is not necessary for the purpose of supplementing official pay and allowances.

Naval Dental Officers are included in the Scheme for Marriage Allowance under the same conditions as for other Naval Officers.

Application forms and copies of the regulations for entry and conditions of service, rates of pay, and allowances, &c., may be obtained from the MEDICAL DIRECTOR-GENERAL OF THE NAVY, Admiralty, S.W.1, and from the Deans of Dental Schools.

## West London Hospital,

Hammersmith, W.6. (239 Beds.)

Required One HOUSE PHYSICIAN and Three HOUSE SURGEONS (Males). These appointments are tenable for six months from 1st January next, subject to one month's notice on either side. The duties of the House Physician include some work in the Neurological and Dermatological Departments. The duties of one House Surgeon include some work in the X Ray Therapy Department, another some work in the Gynæcological Department, and the third some work in the Ear, Nose, and Throat and Ophthalmic Departments. For this last appointment it would be desirable that candidates should be reading for the D.L.O. Salary at the rate of £100 a year, with full board and lodgings.

Candidates must be registered under the Medical Act.

Applications (which must be on printed forms obtained from me) must reach me not later than first post on Thursday, 15th December. Selected candidates will be required to call upon such members of the Medical Staff as directed; to be in attendance at a meeting of the Medical Council at 4.30 P.M. on Friday, 23rd December, and the House Committee meeting at 5 P.M. the same day, when the appointments will be made.

H. A. MADGE, Secretary.

## Borough of Ealing.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Men with a Public Health qualification for the position of Assistant Medical Officer of Health.

A candidate must have had at least three years' experience in the practice of his profession. The person appointed will be required to carry out medical inspection of school-children and child welfare work and perform such other duties as may be allotted as Assistant to the Medical Officer of Health and School Medical Officer.

He will be required to devote his whole time to the duties, and will not be allowed to engage in private practice. The salary will be at the rate of £600 per annum, rising by £25 per annum to £700.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connection therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 15th December.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

## Borough of Ealing.

ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Men (single) with a Public Health qualification for the position of Assistant Medical Officer.

A candidate must have had experience in the treatment of cases of Infectious Disease at an Isolation Hospital. The duties will include the medical care of patients in the EALING AND BRENTFORD and CHISWICK ISOLATION HOSPITAL, South Ealing, and the Medical Inspection and Treatment of School-children at Schools and Health Centres in the Borough of Ealing.

The person appointed will reside at the Isolation Hospital, where furnished rooms and board will be provided.

He will be required to devote his whole time to the duties and will not be allowed to engage in private practice. The salary will be at the rate of £450 per annum, rising by £25 per annum to a maximum of £550, plus board and residence, as indicated above and valued at £150 per annum.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connection therewith. Canvassing will be a disqualification.

Copies of the application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 15th December.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

## King George Hospital, Ilford (near London). 207 Beds.

HOUSE SURGEON (Male) required for a period of six months. Salary at the rate of £100 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, duly completed, as soon as possible.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

## Borough of Bermondsey.

Applications are invited from fully qualified and registered Medical Practitioners (Women—Widows or Single) for the position of ASSISTANT MEDICAL OFFICER for Maternity and Child Welfare.

The salary will be at the rate of £600 per annum, rising by two annual increments of £50 to £700 per annum, and be subject to deductions under the Council's Superannuation Acts. The person appointed will be required to pass satisfactorily a medical examination. Candidates must not have reached their thirty-fifth birthday on the date of their application. Preference will be given to applicants having special experience in the care of women and children. The person appointed will be required as a routine duty to give lectures on hygiene to audiences both of school-children and of adults, and to devote the whole of her time to the work of the Council.

Further particulars of the duties can be had on application to the Medical Officer of Health.

Applications on forms to be obtained from the undersigned and accompanied by copies of not more than three recent testimonials, must be delivered not later than 19th December, 1938. FRANCIS J. R. MOUNTAIN, Town Clerk.

Municipal Offices, Spa-road, Bermondsey, S.E.16.
2nd December, 1938.

## Borough of Wimbledon.

DEPUTY MEDICAL OFFICER OF HEALTH AND DEPUTY SCHOOL MEDICAL OFFICER.

Applications are invited for the above appointment from qualified and registered Medical Practitioners under thirty-five years of age, having at least three years' experience since qualification. Applicants should possess the D.P.H., and experience of school medical work and general public health work is necessary.

The Officer appointed will be required to reside in the borough, to devote his whole time to his official duties, and to work under the direction of the Council's Medical Officer of Health.

The commencing salary is £650, rising by annual increments of £25 to a maximum of £750 per annum. The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the passing of a medical examination.

Application forms can be obtained from the Medical Officer of Health, Town Hall, Wimbledon, to whom they must be returned, with copies of three recent testimonials, not later than first post on Monday, 19th December, 1938.

HERBERT EMERSON SMITH, LL.B., Town Clerk.
Town Hall, Wimbledon, S.W.19, 29th November, 1938.

## The Middlesex Hospital and Medical SCHOOL, London, W.1.

Applications are invited for the post of OTOLOGICAL REGISTRAR. The appointment will be for one year from 1st January, 1939, and the holder will be eligible to apply for reappointment and may retain office for three consecutive years. Salary £300 per annum.

Further particulars may be obtained from the Secretary-Superintendent, to whom applications, with copies of not more than three testimonials must be sent by NOON on Wednesday, December 14th, 1938.

S. R. C. PLIMSOLL, Secretary-Superintendent.
28th November, 1938.

## Guy's Hospital Dental School.

Applications are invited for the whole-time post of DENTAL RESEARCH FELLOW, the appointment to begin as soon after 1st January, 1939, as possible. Preference will be given to a biochemist who is prepared to undertake work on dental diseases. The appointment will be for two years in the first instance with the possibility of reappointment. The stipend will be at the rate of £400 per annum.

Applications, accompanied by the names of three persons to whom reference may be made, should be submitted not later than 31st December, 1938, to the Dean, Guy's Hospital Medical School, S.E.1, from whom further particulars regarding the appointment may be obtained.

## Woolwich and District War Memorial HOSPITAL, Shooters Hill, London, S.E.18.

General Hospital. (112 Beds.)

The Board of Management invites applications from suitably qualified Male candidates for appointment as CASUALTY OFFICER for six months from January 1st, 1939. The remuneration will be at the rate of £100 per annum, plus board, residence, and laundry. The candidate appointed will act as deputy for the Resident Surgical Officer, with consequent opportunities for major surgery.

The closing date for the receipt of applications (which should be made on the prescribed form obtainable from the undersigned) is Monday, December 12th, 1938, and short-listed candidates will be invited to meet the Appointments Committee (at the Hospital) on Thursday, December the 15th, at 4.45 P.M.

R. S. G. HUTCHINGS, Secretary.

## Borough of Ilford.

APPOINTMENT OF TEMPORARY ASSISTANT MEDICAL OFFICER OF HEALTH (PART-TIME) FOR AIR-RAID PRECAUTIONS.

Applications are invited from registered Medical Practitioners, preferably from Medical Officers retired from the Services, for the above position which will be for a period of six months, which may be extended. The salary will be at the rate of £300 per annum.

The duties of the appointment will be part-time under the direction of the Medical Officer of Health, and they will consist mainly in training volunteer personnel in First-Aid and in assisting with the administration of the Casualty Services Section of the Borough A.R.P. Scheme. In addition, the person appointed will be expected to assume the functions of a First-Aid Commandant under the control of the Medical Officer of Health and to examine volunteer recruits for A.R.P. work.

Applications, stating age, qualifications, and experience, should be forwarded to the undersigned not later than Saturday, 17th December, 1938.

CHARLES N. ROBERTS, Town Clerk.

## BOARD OF CONTROL, ENGLAND AND WALES

The Board of Control (Lunacy and Mental Deficiency) invite applications from registered Medical Practitioners (Men and Women) for a vacant appointment as COMMISSIONER on the Board's staff.

Candidates should be experienced in the care and treatment of persons suffering from mental disorder or mental defect.

The salary commences at £850 per annum and rises by 11 annual increments of £30 to £1180 and then to £1200 per annum. In the case of a candidate with special experience of the administration of mental institutions, the commencing salary may be advanced to a point, not exceeding £75, above the minimum of the scale.

The appointment will be subject to the usual Civil Service conditions as to pension, holidays, &c., and also, in the case of women, marriage. Subject to certain conditions, previous established service in a Mental Hospital or Mental Deficiency Institution can be aggregated with Civil Service for superannuation purposes.

Commissioners are required to devote their whole time to the Public Service.

Canvassing through members of Parliament or in other ways will render a candidate liable to disqualification.

Forms of application with further particulars of the appointment may be obtained from the Secretary, Board of Control, Hobart House, Grosvenor-place, London, S.W.1.

No application can be considered unless received on the prescribed form not later than 7th January, 1939.

## West End Hospital for Nervous DISEASES, 73, Welbeck-street, W.1.

The Committee of Management invite applications for the post of HONORARY CLINICAL ASSISTANT (Out-patient Department).

Candidates are requested to obtain further information from the undersigned, to whom applications, with copies of not more than three recent testimonials, should be posted not later than Monday, 19th December.

J. P. WETENHALL, Secretary and House Governor.

## Poplar Hospital, East India Dock-road, Poplar, E.14.

The Committee invites applications for the appointment of SECOND RESIDENT OFFICER (Male) at a salary at the rate of £175 per annum, all found.

Candidates must have held appointments as House Surgeon at a Hospital.

Applications must be accompanied by a statement of the candidate's qualifications and forwarded to the Secretary, with three recent testimonials, not later than Friday, December 23rd, 1938.

The appointment is for a period of six months.

## The Weir Hospital, Weir-road, Balham, S.W.12. (30 Beds.)

JUNIOR RESIDENT MEDICAL OFFICER required at the end of December (Male, unmarried). Candidates must be fully qualified and duly registered. Salary £150 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, to be sent to the Secretary, from whom further information may be obtained.

## London Hospital, E.1.

There is a vacancy for the post of FIRST ASSISTANT to the OPHTHALMIC DEPARTMENT. Candidates must be fully qualified medically.

Applications should be made to the Secretary, from whom further particulars may be obtained, and should arrive not later than Saturday, January 14th, 1939.

H. L. MILSOM, Secretary.



# Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

*Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.*

## The Willesden General Hospital,
Harlesden-road, N.W.10.

OUT-PATIENT DEPARTMENT CLINICAL ASSISTANTS (HONORARY).

Applications are invited for appointment to the following sessions :—

GYNÆCOLOGICAL .. Thursday mornings.
SURGICAL.. .. .. Friday afternoons.
MEDICAL .. .. .. Friday mornings.

Applications should be forwarded to the Secretary from whom further details of the appointments may be obtained, and should be received not later than first post on Tuesday, 13th December, 1938.

28th November, 1938.

## The Willesden General Hospital,
Harlesden-road, N.W.10.

Applications are invited from fully-qualified and registered candidates (unmarried) for the appointment of a Resident Officer, to hold the appointment of CASUALTY OFFICER for a period of three months from the 1st January, 1939, followed by a six months' appointment as HOUSE SURGEON. (Total nine months.)

Salary at the rate of £100 per annum.

Applications to be received by the Secretary not later than first post on Thursday, 15th December, 1938.

28th November 1938.

## Hospital for Diseases of the Skin,
Blackfriars.

The Committee of Management will shortly appoint an additional member of the HONORARY STAFF. Candidates should be either Members of the Royal College of Physicians (London) or Fellows of the Royal College of Surgeons (England).

Applications, with testimonials in support, must be sent before December 12th to L. MUNDY, Secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

## Hospital of St. John and St. Elizabeth,
60, Grove End-road, N.W.8.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male). The post is recognised for the degree of M.D. London University. The appointment will be for six months from February 1st, 1939. Salary at the rate of £100 per annum with full board.

Applications, together with copies of three testimonials, should reach the undersigned by December 31st.

Applicants will be required to attend a meeting of the Medical Committee at 8.30 P.M. on January 3rd, 1939, at the Hospital.

F. DUDLEY HOBBS, B.A., Secretary.

## The East Ham Memorial Hospital,
Shrewsbury-road, E.7. (104 Beds.)

The General Committee invites applications for the post of HONORARY RADIOLOGIST.

Applications, stating age and full particulars, together with copies of three testimonials, should reach the undersigned on or before 14th December.

Candidates will be expected to send copies of their applications and testimonials to and call upon members of the Honorary Medical Staff.

REGINALD PERRY, Secretary.

## East Ham Memorial Hospital.
Shrewsbury-road, E.7. (104 Beds.)

Applications are invited for the post of HOUSE SURGEON and CASUALTY OFFICER (Male) for six months, commencing 1st January. Salary at the rate of £120 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three recent testimonials, should reach the undersigned by 14th December.

REGINALD PERRY, Secretary.

## East Ham Memorial Hospital,
Shrewsbury-road, E.7. (104 Beds.)

Applications are invited for the post of REFRACTIONIST. The successful candidate will be required to attend on Thursday afternoon. Honorarium £65 per annum.

Applications should reach the undersigned on or before 14th December.

REGINALD PERRY, Secretary.

## London County Council.

Applications invited for one Full-time permanent position of ASSISTANT MEDICAL OFFICER, chiefly in connexion with Council's School Medical work. Special experience of Medical Examination of Children essential. Salary £600 by £25 to £750.

Application forms (stamped addressed foolscap envelope necessary) from Medical Officer of Health, S.D.5, County Hall, Westminster Bridge, S.E.1, returnable by 31st December. Canvassing disqualifies.

## London County Council.

CONSULTANT AND SPECIALIST SERVICES.

Part-time OBSTETRICIAN and GYNÆCOLOGIST (one position) required for duty at Hackney Hospital and St. Leonard's Hospital, Shoreditch. Salary £800.

Officer responsible, subject to administrative control of Medical Superintendents, for obstetric and gynæcological work at these hospitals. Required to live within reasonable distance of hospitals, to visit them daily and as required.

Application forms (stamped, addressed foolscap envelope necessary) from Medical Officer of Health (S.D.6), County Hall, Westminster Bridge, S.E.1, returnable by 19th December. Women eligible. Canvassing disqualifies.

## London County Council.

ASSISTANT DISTRICT MEDICAL OFFICERS

Required for undermentioned districts :—

(1) AREA I, DISTRICT K (SOUTH POPLAR).—Provisional salary £350.
(2) AREA VIII, DISTRICT D (Part SOUTHWARK).—Provisional salary £212 10s. (inclusive of payment for use of doctor's surgery for Council's patients).
(3) AREA X, DISTRICT G (WOOLWICH, North of River).—Provisional salary £75 (inclusive of payment for use of doctor's surgery for Council's patients).

Persons appointed required to reside in or near districts.

Application form, with further particulars obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1.

Canvassing disqualifies.

## London County Council.

ASSISTANT MEDICAL OFFICERS (Men or Women) required for Mental Health Service. Candidates (under thirty-five years of age) must (1) be registered to practise both in Medicine and Surgery in England, (2) be of at least one year's professional standing, and (3) have held residential position in General Hospital for six months or comparable General experience. Salary £470 a year, rising by £25 to £570 (additional allowance of £50 to holders of D.P.M.). No emoluments. Charges for board, lodging, &c. (at present £2 9s. a week), if required to be resident. Pensionable. Marriage terminates service in case of women.

For application form, returnable by 28th December, send stamped addressed foolscap envelope to Chief Officer (B/A) Mental Hospitals Department, Shell-Mex House, Strand, W.C.2. Canvassing disqualifies.

## London County Council.

Applications invited from registered Medical Practitioners of at least one year's standing, resident in the neighbourhood, for appointment as Temporary VISITING MEDICAL OFFICER (Part-time) at EARLSFIELD HOUSE, Children's Receiving Home, 1, Swaffield-road, Wandsworth, S.W.18. Salary £150.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, Westminster Bridge, S.E.1, returnable by 30th December. Canvassing disqualifies.

## Charing Cross Hospital.

Applications are invited for the post of HONORARY CLINICAL ASSISTANT in the X Ray and Electro-therapeutic Department. Honorarium £50 per annum.

Candidates should have by preference the qualification of D.M.R.E.

Applications, together with copies of three recent testimonials, should be sent to the undersigned not later than January 2nd, 1939.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, W.C.2.

## Royal College of Surgeons of England.

ELECTION OF EXAMINER IN DENTAL SURGERY.

NOTICE is hereby given that the Council, on March 9th next, will elect a Member of the Board of Examiners in Dental Surgery in the vacancy occasioned by the retirement of Mr. F. N. Doubleday, who is eligible.

Persons duly registered under the Dentists Acts, 1878–1923, desirous of being elected, should make application, in writing, to the Secretary, on or before Monday, January 2nd, 1939.

KENNEDY CASSELS, Secretary.

10th December, 1938.

## University College Hospital,
Gower-street, London, W.C.1.

FIRST ASSISTANT IN THE CHILDREN'S DEPARTMENT.

The date by which applications for the appointment of First Assistant in the Children's Department may be received has been extended to 4th January, 1938.

The appointment will now take effect from 1st February, 1939.

R. SLOLEY, Secretary.

## Princess Louise Kensington Hospital

FOR CHILDREN, St. Quintin-avenue,
North Kensington, W.10. (Ladbroke 0133.)

The Board of Management invite applications for the post of HONORARY ASSISTANT PHYSICIAN, with beds.

Applicants must be graduates of a University and must hold the M.R.C.P. (London), and the successful candidate will be required to see Out-patients.

Applications, accompanied by copies of three testimonials, should be sent to the undersigned at the Hospital, from whom any further information can be obtained, and should reach him not later than Saturday, 17th December, 1938.

H. J. ELEY, Secretary.

## The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

An OUT-PATIENT MEDICAL OFFICER (part-time and non-resident) is required as early as possible in January. Salary £150 per annum. The duties will include those of the former Out-patient Medical Registrar.

An OUT-PATIENT AURAL REGISTRAR (part-time) is required as early as possible in January. Salary £175 per annum.

These appointments are tenable in the first instance for one year, but may be held for a period of two years, subject to re-election.

Candidates must possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by NOON on Monday, the 2nd January, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 4th January, 1939.

Full instructions and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

December, 1938.

## Croydon General Hospital.

Applications are invited from qualified and registered Medical Men for the post of CASUALTY HOUSE SURGEON. Salary £125 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, accompanied by copies (which will not be returned) of three testimonials, to reach the undersigned not later than Saturday, December 17th.

The candidate appointed will be required to take up duties on January 1st, 1939.

GEORGE H. DAMS, House Governor and Secretary.

6th December, 1938.

## Hospital for Consumption and Diseases

OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN for which there are two vacancies.

Applications, with copies of testimonials, must reach the undersigned not later than Monday, 9th January, 1939. Candidates must be Members (or have passed the qualifying examination for the Membership) of the Royal College of Physicians, London.

Applications should not be addressed to individual members of the Committee of Management.

F. G. ROUVRAY, Secretary.

Brompton, S.W.3, December, 1938.

## Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Practitioners for the post of ANÆSTHETIC REGISTRAR at the above Hospital for one year from 1st February, 1939, with option to apply for reappointment for two subsequent years.

The post is a non-resident one and carries with it a remuneration of £150 per annum.

Candidates should have had experience in all forms of Anæsthetics, including Dental work.

They should submit applications, with copies of three recent testimonials, stating age and qualifications, to the undersigned, on or before 7th January, 1939.

RICHARD T. BARTLEY, Secretary.

## The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of ASSISTANT SURGEON to the Hospital. Candidates must be Fellows of the Royal College of Surgeons of England, or Masters of Surgery of a recognised British University.

The appointment is made subject to Rules and Conditions laid down by the Charter of Incorporation, details of which can be obtained from the Secretary.

Applications (eighteen copies), with copies of not more than three recent testimonials, should be sent to the undersigned by not later than the first post on Monday, 19th December, 1938.

CLEMENT COBBOLD, Secretary.

## London Chest Hospital,

Victoria Park, E.2.
(Bus, Tram and Rly. Cambridge Heath, L.N.E. Rly.)

REGISTRAR—Ear, Nose, and Throat Dept. (Male) (Part-Time).

Applications are invited for the above post.

The appointment will be for a period of one year.

Honorarium £50 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before 3rd January, 1939.

THOMAS BROWN, Secretary.

## Central London Ophthalmic Hospital,

Judd-street, London, W.C.1

Locum is required for the SENIOR HOUSE SURGEON for two months from February 1st. Further particulars may be obtained from the Secretary at the Hospital.

## London Chest Hospital,

Victoria Park, E.2
(Bus, Tram and Rly. Cambridge Heath, L. & N.E. Rly.)

SURGICAL REGISTRAR (Male) (Part-time).

Applications are invited for the above post.

Four sessions a week, Tuesday and Friday mornings essential. Appointment is for one year. Honorarium £100 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before 3rd January, 1939.

THOMAS BROWN, Secretary.

## City of Liverpool.

BROAD GREEN SANATORIUM
(353 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment for a period of one year at a salary of £250 per annum, together with the usual residential allowances.

Candidates must possess a registered medical and surgical qualification and preference will be given to candidates with previous hospital experience.

The post is suitable for a candidate working for the M.D.

The Sanatorium is within easy reach of the centre of the City and the University.

Canvassing, either directly or indirectly will be considered a disqualification.

Applications to be made on forms obtainable from the Medical Officer of Health, Hospitals Department, Municipal Annexe, Dale-street, Liverpool, 2, to be endorsed "Resident Assistant Medical Officer," and returned to the undersigned so as to be received not later than Wednesday, 21st December, 1938.

W. H. BAINES, Town Clerk.

Municipal Buildings, Liverpool, 2, December, 1938.

## Royal Berkshire Hospital, Reading.

(338 Beds.)

Applications are invited for the following resident appointments which fall vacant on February 1st, 1939:—

One HOUSE SURGEON to the SPECIAL DEPARTMENTS (Eye, Ear, Nose, and Throat) (Male).

One CASUALTY OFFICER (Male).

Appointments are for six months and candidates must be fully qualified and registered.

Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of testimonials, to be sent to the undersigned on or before January 7th, 1939.

H. E. RYAN, Secretary and House Governor.

## Manchester Victoria Memorial Jewish

HOSPITAL, CHEETHAM.
(Non-Sectarian. 102 Beds.)

Applications are invited for the following posts:—

JUNIOR HOUSE SURGEON AND CASUALTY OFFICER (Male). Salary £125 per annum.

RESIDENT MEDICAL OFFICER (Male). Salary £150 per annum.

Both appointments are for six months and include board, residence, and laundry.

Applications stating age and qualifications, together with copies of three recent testimonials, to be forwarded to the undersigned not later than Thursday, Dec. 22nd, 1938.

By order of the Board of Management.

D. ROBERTS, Superintendent and Secretary.

## Dundee Mental Hospital, Westgreen.

Applications are invited for the post of JUNIOR ASSISTANT MEDICAL OFFICER (Male) to the above Hospital. Salary £300 per annum, with board, lodging, and laundry, subject to deductions under the Asylum Officers' Superannuation Act.

Applications, stating age and experience, with copies of three recent testimonials, to be forwarded to the Medical Superintendent.

## Rhondda Urban District Council.

WOMAN ASSISTANT MEDICAL OFFICER.

Applications are invited from unmarried or widowed women Medical Practitioners, not exceeding forty-five years of age, for appointment as Assistant Medical Officer under the direction and supervision of the Council's Medical Officer of Health and School Medical Officer, at a salary of £500, rising by annual increments of £25 to £700 a year, the first annual increment being payable on April 1st following the completion of six calendar months' service under the Council; travelling expenses necessarily incurred in the performance of the duties will also be allowed. Candidates must have had not less than three years' professional experience subsequent to registration, and must be experienced in the diseases of children and in maternity work; special experience in orthopædic work and the possession of a Diploma in Public Health will be considered desirable additional qualifications.

The appointment, which is designated under the Local Government and Other Officers' Superannuation Act, 1922, will be subject to the passing of a medical examination and will be terminable by two calendar months' notice on either side. The Officer appointed will be required to reside within the Rhondda Urban District and will not be allowed to engage in private practice.

Applications are to be made on forms obtainable from the Medical Officer of Health, Tydfil House, Llewelyn-street, Pentre, Rhondda, by whom they must be received, endorsed "Assistant Medical Officer," and accompanied by copies of three recent testimonials, not later than the first post on Friday, the 23rd December, 1938.

D. J. JONES, Clerk of the Council.

The Council Offices, Pentre, Rhondda, 5th December, 1938.

## VACANCY FOR PATHOLOGIST IN SOUTHERN RHODESIAN GOVERNMENT SERVICE

Required by the Government of Southern Rhodesia a Pathologist for appointment as Director of a Public Health Laboratory in Southern Rhodesia.

Applicants should be experienced in all branches of laboratory work, including Bacteriology, Biochemistry, Helminthology, Protozoology, &c.

Salary will be at the rate of £1000 per annum, rising by annual increments of £50 per annum to £1250 per annum.

The appointment will be on contract in the first instance for a probationary period of two or three years thereafter the incumbent will be considered for appointment to the pensionable staff and particulars regarding pension and leave may be obtained from the Official Secretary, Office of the High Commissioner in London.

The successful applicant will be required to assume duty at the Public Health Laboratory, Bulawayo, Southern Rhodesia, as soon as possible and his steamship passage from England to Cape Town and railway fare from Cape Town to Bulawayo will be paid by the Government.

Applications, accompanied by testimonials, references, &c., and full information as to when services will be available if appointed, should reach the Official Secretary, Office of the High Commissioner for Southern Rhodesia, Rhodesia House, 429, Strand, London, W.C.2, on or before 16th December, 1938.

## County Borough of Oldham.

MUNICIPAL HOSPITAL.

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the post of Resident Assistant Medical Officer. Applicants must not be over forty-five years of age.

Salary £200 per annum, with board, residence, and laundry.

Candidates should be unmarried.

The appointment will, in the first instance, be for a period of six months. The successful applicant, however, will be eligible for reappointment for a further period of six months.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

The hospital comprises 375 beds, with facilities for gaining experience in medicine, surgery, midwifery, and diseases of children.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Oldham, and should be returned, endorsed "Resident Assistant Medical Officer," as soon as possible, but not later than 9 A.M. on Wednesday, 28th December, 1938.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 5th December, 1938.

## The Kidderminster and District General HOSPITAL. (145 Beds.)

SENIOR HOUSE SURGEON (Male) required. Salary £150 per annum, with residence, board, and laundry.

JUNIOR HOUSE SURGEON (Male) required. Salary £100 per annum, with residence, board, and laundry.

Applications, together with not more than three testimonials, should be forwarded immediately to the undersigned.

F. W. BARNETT, House Governor and Secretary.

## Hampshire County Council.

ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited for the post of Assistant County Medical Officer. Possession of a Diploma or Degree in Public Health is essential, and previous experience in the various branches of public health, especially tuberculosis, and school medical service work is desirable.

Salary £600 a year rising, on approved service, by increments to £750 (subject to deductions under the Local Government Superannuation Act, 1937) in addition to travelling expenses.

Applications, with copies of not more than three recent testimonials, upon a form which, with the conditions of appointment, may be obtained from the County Medical Officer, The Castle, Winchester, should be sent to him as soon as possible and not later than the 30th December, 1938. Canvassing is prohibited.

The successful candidate will not be expected to take up his duties before the 1st April, 1939.

F. V. BARBER, Clerk of the County Council.

The Castle, Winchester, 5th December, 1938.

## Addenbrooke's Hospital, Cambridge.

Applications are invited for the following posts:—

(a) HOUSE SURGEON, vacant on February 1st, 1939.

(b) HOUSE PHYSICIAN, vacant on February 1st, 1939.

Each appointment is tenable for a period of six months, but is terminable at an earlier date by one month's written notice on either side.

The salary of each officer will be at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, December 21st, 1938.

J. A. BEARDSALL, Secretary-Superintendent.

## Leicester Royal Infirmary.

PART-TIME VENEREAL DISEASES OFFICER (Female).

Applications are invited for the position of Senior Medical Officer (Woman) in charge of Women's V.D. Clinics under general administrative control of the Director of Venereal Diseases Service. Salary £350 per annum.

The appointment is for a part-time Medical Officer, who will be allowed to engage in private, but not panel, practice. It is understood that an additional part-time appointment valued at £150 per annum will be offered to the successful candidate.

Applicants must be qualified in accordance with the new regulations of the Ministry of Health.

Full details on application to the House Governor and Secretary.

30th November, 1938.

## County Mental Hospital, Prestwich, Nr. MANCHESTER.

Applications are invited for the whole-time appointment of SENIOR ASSISTANT MEDICAL OFFICER at the above Mental Hospital. The salary is £700 per annum. An additional £50 per annum will be paid for the possession of a diploma in Psychological Medicine.

The selected candidate must be single, and will be required to live in the Hospital and will be provided with board, lodgings, &c., for which a charge of £150 per annum is made.

The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, and the successful candidate will be required to pass a medical examination.

Applications, giving full particulars, with copies of testimonials, should be forwarded so as to reach the Medical Superintendent on or before the 4th January, 1939, address as above.

## The Royal Infirmary, Sheffield.

The Board of Management invite applications for the post of OPHTHALMIC HOUSE SURGEON.

The salary attached to the post is £120 per annum, with board and residence.

The successful applicant will be expected to take up his duties on 1st January, 1939.

The Ophthalmic Department contains 69 Beds and an Out-Patient Department which is open daily.

Applications with copies of testimonials to be sent forthwith to the General Superintendent and Secretary.

5th December, 1938.

## The Staffordshire General Infirmary, STAFFORD.

(145 Beds, including 14 Private Wards. Three Residents.)

HOUSE SURGEON required to take up duties on the 1st January. Salary £175 per annum, with board, residence.

Applications, stating age and giving particulars of experience, together with copies of three recent testimonials, should be sent to me forthwith.

A. E. COLLINS, Secretary.

Stafford, 3rd December, 1938.

## Essex and Colchester Mental Hospitals.

SEVERALLS MENTAL HOSPITAL.

Applications are invited for the post of MEDICAL SUPERINTENDENT at Severalls Mental Hospital, Colchester.

Applicants must be registered under the Medical Act, and have had previous mental hospital experience, and be not more than forty-five years of age. Salary £1100, rising by annual increments of £50 to £1350 per annum, with unfurnished house, coals, firewood, light, garden produce, washing, garage, and upkeep of garden.

A deduction will be made from the salary in accordance with the Asylums Officers' Superannuation Act, 1909.

Copies of not more than three recent testimonials must be sent with the application so as to reach the undersigned on or before the 22nd December, 1938.

The appointment is subject to three months' notice on either side.

Direct or indirect canvassing will disqualify any applicant.

Forms of application must be obtained from the undersigned.

H. H. GEPP, Clerk to the Committee of Visitors.

66, Duke-street, Chelmsford. 22nd November, 1938.

## The Bolton Royal Infirmary.

(318 Beds, including two Auxiliary Hospitals.)

ASSISTANT PATHOLOGIST.

Applications are invited from qualified Medical Men or Women for the above post. Post-graduate experience in the routine methods of a general hospital laboratory is essential.

The appointment is a whole-time one.

Salary £600 per annum.

Further information may be obtained from the undersigned, to whom applications, stating age, nationality, and experience, and enclosing two copies of recent testimonials, should be sent as soon as possible.

H. CORLESS, Secretary.

## Wirral Joint Hospital Board.

CLATTERBRIDGE ISOLATION HOSPITAL.
(100 Beds.)

The Wirral Joint Hospital Board invite applications from registered Practitioners for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named Hospital.

Preference will be given to applicants who have had experience in Bacteriology.

The Hospital is situated within easy distance of the Liverpool Medical School, and time will be allowed, when the work of the Hospital permits, for attendance at D.P.H. or other higher qualification classes.

The appointment is for one year only, and is not renewable.

Salary £200 per annum, with board, residence, and laundry.

Duties begin 1st February, 1939.

Application, stating age, qualifications, &c., and accompanied by copies of recent testimonials, to be made not later than 15th December, 1938, to :—

DAVID BUNTING, Clerk to the Joint Hospital Board.

61, Hamilton-square, Birkenhead.

## Borough of Heston and Isleworth.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Medical Men with a Public Health qualification for the position of Assistant Medical Officer of Health and School Medical Officer.

Candidates will be required to carry out medical inspection of school-children, bacteriological work, child welfare work, administer dental anæsthetics, and perform such other duties as may be allotted by the Medical Officer of Health.

The person appointed will be required to devote his whole time to the duties, to reside in the Borough, and will not be allowed to engage in private practice. The salary will be at the rate of £500 per annum, rising to £700 per annum by annual increments of £25.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the appointment will be subject to medical examination.

Copies of the application form and terms of appointment can be obtained from the Medical Officer of Health, 92, Bath-road, Hounslow.

Applications, accompanied by copies of not more than three recent testimonials enclosed in a sealed envelope endorsed "Assistant Medical Officer," must be delivered to the undersigned not later than NOON on Friday, 16th December, 1938.

HAROLD SWANN, Town Clerk.

Council House, Hounslow.

## Harlow Wood Orthopædic Hospital,

Near MANSFIELD, NOTTS.
(155 Beds. Two Residents.)

Applications are invited for the posts of Two HOUSE SURGEONS (Male), one to commence on 1st January, 1939, and the other to commence on 1st February, 1939, the appointments being for six months in the first instance. Salary is at the rate of £200 per annum, with board, residence and laundry.

Applications, stating age, qualifications and experience, with copies of testimonials, should be received by the Secretary not later than 12th December, 1938.

## West Ham Hospital for Nervous and MENTAL DISORDERS, GOODMAYES, ILFORD, ESSEX.

Applications are invited for a Male JUNIOR ASSISTANT MEDICAL OFFICER at the above Hospital. Candidates must be unmarried.

The commencing salary is at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, together with emoluments consisting of board, laundry and attendance, valued for superannuation purposes at £150. The person appointed will also be paid, in addition to his salary, the sum of £50 per annum on obtaining the Diploma of Psychological Medicine.

The appointment is subject to six months probation, and to the provisions of the Asylums Officers' Superannuation Act, 1909, Class 1, and to a satisfactory medical examination.

The Hospital is situate 10 miles from London.

Applications, stating age and experience, accompanied by copies of three recent testimonials, must reach the Medical Superintendent not later than 12th December, 1938.

## Norfolk and Norwich Hospital,

NORWICH. (440 Beds.)

Applications are invited for the post of HOUSE SURGEON to the ORTHOPÆDIC DEPARTMENT. Salary £120 per annum with board, residence, and laundry. Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age, nationality, &c., together with copies of testimonials, should be forwarded to the undersigned not later than Tuesday, 13th December, 1938.

FRANK INCH, House Governor and Secretary.

Friday, 2nd December, 1938.

## Royal Cornwall Infirmary, Truro.

(180 Beds.)

SENIOR HOUSE SURGEON wanted for January 1st, 1939. Salary £150 per annum, with board, residence, laundry, and attendance. Previous hospital experience essential.

Applications, stating age, nationality, and experience, to be forwarded to the undersigned.

A Junior House Surgeon will be appointed on March 1st, 1939.

W. E. GRENFELL, Hon. Secretary

Truro, 22nd November, 1938.

## The Prince of Wales's Hospital,

PLYMOUTH.
(Incorporating South Devon and East Cornwall Hospital, Greenbank-road, Royal Albert Hospital, Devonport, Central Hospital, Lockyer-street.)

Applications are invited for the post of HONORARY ASSISTANT SURGEON to the Hospital. (The Honorary Surgical Registrar is a candidate for the post.)

Candidates must be Masters of Surgery of a University of the United Kingdom, of Fellows of the Royal College of Surgeons of England or of Edinburgh.

Applications and testimonials must reach the undersigned, from whom the rules and regulations governing the appointment may be obtained, on or before the 24th December, 1938.

Personal canvassing disqualifies, but candidates may send copies of their application and testimonials to the members of the Board.

ARTHUR R. CASH, General Superintendent.

November 30th, 1938.

## Birmingham United Hospital.

FULL-TIME ASSISTANT TO THE RADIOLOGICAL DEPARTMENT.

Applications are invited for the above post.

The appointment is for one year, the holder being eligible for re-election.

Salary £400 per annum to £450 per annum, according to experience.

Candidates must be registered Medical Practitioners and must possess a Diploma in Radiology.

Applications must be sent to the undersigned (from whom all further particulars can be obtained), stating age, experience, and qualifications with copies of recent testimonials, not later than December 17th.

G. HURFORD, Secretary, Birmingham United Hospital.

The Centre Hospital, Edgbaston, Birmingham, 15.

November 29th, 1938.

## Royal Manchester Children's Hospital,

PENDLEBURY, near MANCHESTER.
(232 Beds.)

RESIDENT HOUSE SURGEON.

Applications are invited for the post of Resident House Surgeon for a period of six months, commencing 1st February, 1939. Salary £100 per annum. Candidates having previous experience in the administration of Anæsthetics will be given preference.

Applications, stating qualifications and past experience, together with testimonials, to be sent to the undersigned not later than Thursday, 29th December, 1938.

Canvassing, directly or indirectly, may disqualify.

By Order,
H. HEARDMAN, Secretary.

## Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

FARNHAM COUNTY HOSPITAL (197 Beds).

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of Assistant Medical Officer at the Farnham County Hospital, Hale-road, Farnham.

Candidates must have held resident hospital appointments and should preferably possess a higher qualification.

The tenure of the appointment is limited to a period of 5 years, but the appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922. The cash salary is at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the County Medical Officer, County Hall, Kingston-on-Thames, so as to be received not later than the 21st December, 1938.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 9th December, 1938.

## Royal Halifax Infirmary.

Hospital recognised by the Royal College of Surgeons (England).
(250 Beds.)

Wanted, a SECOND HOUSE SURGEON; also a THIRD HOUSE SURGEON (Male, unmarried). Candidates must be duly qualified and registered. The appointments will be for six months from 1st January to 30th June, 1939. Salary, including all services required in connexion with Paying Patients' Ward, £175 per annum and £150 per annum respectively, with residence, board, and laundry. The Resident Staff consists of Resident Surgical Officer and three House Surgeons. The Hospital contains Maternity and Paying Patients' Blocks. Also a Pathological Department, a large Eye, Ear, Nose, and Throat Department, Radiological Department, and Radium Clinic.

Particulars of the duties may be obtained from the undersigned, to whom applications, stating age and nationality, together with testimonials, should be sent.

A. MIDGLEY, Secretary.

5th December, 1938.

## West Kent General Hospital

(Incorporated),
MAIDSTONE. (135 Beds.)

Applications are invited for the post of HOUSE SURGEON, who must be a Male of British nationality and unmarried.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned not later than the 23rd December, 1938. The successful candidate will be required to take up residence on the 1st January, 1939.

EDWARD J. GREGG, House Governor and Secretary.

## Preston and County of Lancaster

QUEEN VICTORIA ROYAL INFIRMARY.

The post of HOUSE PHYSICIAN becomes vacant on the 25th January next.

The duties involve the care of 70 beds and attendance at Electro-cardiograph, Asthma, and General Medical Clinics. There are efficient X ray and Pathological Units.

The usual salary is at the rate of £150 per annum, with board, residence, and laundry, six months' appointment. The Board of Management is, however, prepared to pay a salary of £200, rising after six months to £250 per annum, to a successful candidate who has a higher degree in medicine, or who has had previous experience as a House Physician for a six or twelve months' appointment.

Applications, stating age, qualifications, and experience, with copies of testimonials, should be forwarded to Mr. JOHN GIBSON, Superintendent, Royal Infirmary, Preston.

## Free Eye Hospital, Southampton.

Applications are invited for the post of ORTHOPTIC TEACHER as from 1st January, 1939. Whole-time appointment; commencing salary £180. Must be unmarried. Facilities given for taking private patients on terms to be arranged.

Applications, giving experience and qualifications, to be sent to the undersigned.

E. T. KEMP, Secretary.

## Rotherham General Hospital.

HONORARY OPHTHALMIC SURGEON.

The Hospital Committee invite applications for the post of Honorary Ophthalmic Surgeon at the above Institution.

Prompt replies to this advertisement are desirable and full particulars can be obtained from the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham.

## City of Birmingham.

PUBLIC ASSISTANCE COMMITTEE.

BIRMINGHAM INFIRMARY.

ASSISTANT RESIDENT MEDICAL OFFICER.

The Public Assistance Committee invite applications from fully qualified Medical Practitioners for appointment as Assistant Resident Medical Officer at Birmingham Infirmary.

The Institution has accommodation for upwards of 1900 patients, an increasing proportion of which is set aside for chronic sick cases both male and female.

The Officer appointed will be required to assist in the general medical work of the Institution under the supervision of the Resident Medical Officer.

Any further particulars of the Institution and/or duties can be obtained upon application to the Medical Officer, Dr. L. NAGLEY, M.D.

Salary will be at the rate of £350 per annum, rising, subject to satisfactory service, by annual increments of £25 per annum to £450 per annum together with full residential emoluments (rations, apartments, laundry, and attendance). Four weeks' leave of absence will be granted to the successful candidate.

The appointment will be subject (1) to the candidate satisfactorily passing a medical examination, (2) to one month's notice to terminate on either side. The salary will be subject to deductions in respect of superannuation and (subject to the necessary qualifications) in respect of the Municipal Officers' Widows' and Orphans' Pensions Scheme.

Applications, accompanied by copies of three recent testimonials, should be addressed to the Public Assistance Officer, 102, Edmund-street, Birmingham 3, and forwarded so as to reach him on or before 10 A.M. on Monday, the 19th December next.

Canvassing in any form, oral or in writing, direct or indirect, will be regarded as a disqualification.

F. H. C. WILTSHIRE, Town Clerk.

Council House, Birmingham, 1, 29th November, 1938.

## Royal East Sussex Hospital, Hastings.

Applications are invited for the post of SENIOR HOUSE SURGEON (Female) vacant 1st January, 1939. The appointment is for a period of six months. Salary at the rate of £200 per annum, with board, residence. Candidates must be duly registered Medical Practitioners.

Applications, with copies of recent testimonials, to be addressed to the Secretary.

WILFRID T. KEMSLEY.

## Hounslow Hospital, Staines-road,

MIDDLESEX.

HOUSE PHYSICIAN AND CASUALTY OFFICER.

Applications are invited from Male Registered Practitioners of British nationality for the above post. The appointment is for six months from 1st February, 1939, with eligibility for appointment for a further period. Salary £100 per annum, with board, residence and laundry.

Applications, with copies of three recent testimonials, should be sent to the undersigned not later than first post on Tuesday, 20th December.

A. MOWBRAY BARKER, Secretary.

## Hull Royal Infirmary.

Applications are invited for the post of SECOND CASUALTY OFFICER (Male), vacant December 30th.

Salary £150 per annum, plus board, residence and laundry.

In addition to carrying out duties in the Casualty Department, the officer appointed will act as House Surgeon to one of the Honorary Assistant Surgeons, and will thus obtain Ward and Theatre experience. He will be eligible for promotion to a more senior post when a vacancy occurs.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving particulars of age, experience and nationality, together with copies of testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

28th November, 1938.

## Royal Buckinghamshire Hospital,

AYLESBURY. (115 Beds.)

Applications are invited for the posts of
SENIOR & JUNIOR RESIDENT MEDICAL OFFICERS
(Male).

For six months beginning 1st January, 1939.

Salaries £200 and £150 per annum respectively, with full board, residence in own flat, and laundry.

Previous Hospital experience is desirable. Opportunity will be afforded to undertake all branches of medical and surgical practice, including anæsthesia, and to work with London consultants.

Selected candidates will be required to attend for interview by the Medical Committee on Friday, 16th December, 1938.

Applications must reach the undersigned by Monday, 12th December, 1938.

F. G. DAWES, Secretary.

## Lincoln County Hospital.

Wanted, SENIOR HOUSE SURGEON, Male, unmarried. Salary at the rate of £250 per annum, rising to £300 per annum at the conclusion of six months' approved service. Board, residence, and washing will also be provided.

Every candidate for the appointment must be registered under the Medical Acts.

Applications, stating age and other particulars, with copies of not more than three testimonials, are to be sent to the undersigned, from whom further particulars may be obtained.

ARTHUR MOORE, Secretary-Superintendent.

Lincoln, 26th November, 1938.

## Manchester Hospital for Consumption

AND DISEASES OF THE THROAT AND CHEST.

Wanted, an ASSISTANT MEDICAL OFFICER (Male) for the CROSSLEY SANATORIUM, DELAMERE FOREST, CHESHIRE (113 Beds). Salary £200 per annum, with board, apartments, and laundry. Candidates must be registered. The appointment offers an opportunity for gaining experience in modern methods of treating Pulmonary Tuberculosis.

Applications, stating age, with copies of testimonials, to be sent not later than December 24th to W. Hunt, Secretary, 45, Hardman-street, Manchester, 3.

## University of Leeds.

FACULTY OF MEDICINE.

The Council will shortly proceed to the appointment of a SECOND SURGICAL TUTOR, at a salary of £400 a year.

Further particulars may be obtained from the Registrar, The University, Leeds, 2, who will receive applications for the post on or before the 23rd December.

## County Mental Hospital, Prestwich,

Near MANCHESTER.

Locum Tenens (with a possibility of permanency) Male MEDICAL OFFICER, age not exceeding thirty-five, required at the above Hospital which is a Training School.

Salary £7 7s. per week, with board, lodging, and laundry. Copy testimonials only must be sent.

Candidates must be unmarried and registered under the Medical Act. Appointment terminable by one week's notice on either side.

Apply as soon as possible stating age, hospital and other experience, qualifications, and full particulars to the Medical Superintendent as above.

## The Victoria Infirmary of Glasgow.

(495 Beds.)

APPOINTMENT OF A VISITING ANÆSTHETIST.

The Governors invite applications for the above appointment. The salary attached to the appointment is £400 per annum. Particulars of the duties may be obtained from the Medical Superintendent at the Infirmary.

Fourteen copies of application and testimonials to be lodged with the undersigned not later than 24th December.

JOHN W. ROBSON, Secretary and Treasurer.

40, St. Vincent-place, Glasgow, 2nd December, 1938.

## Royal Victoria Infirmary,

NEWCASTLE-UPON-TYNE.

(835 Beds.)

MEDICAL REGISTRAR—Open Appointment.

Applications are invited for the post of Medical Registrar to take up duty on 1st February, 1939.

Candidates must be registered in Medicine and in Surgery.

The salary is at the rate of £250 per annum (non-Resident).

Further particulars regarding duties, times of attendance, &c., may be obtained from the undersigned, to whom applications, with copies of not more than three testimonials, should be sent not later than 31st December, 1938.

S. DUNSTAN, House Governor and Secretary.

5th December, 1938.

## City of Liverpool.

SMITHDOWN ROAD HOSPITAL

(1220 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment for a period of one year at a salary of £200 per annum, together with the usual residential allowances.

Canvassing, either directly or indirectly, will be considered a disqualification.

Applications to be made on forms obtainable from the Medical Officer of Health, Hospitals Department, Dale-street, Liverpool, 2, to be endorsed "Resident Assistant Medical Officer," and returned to the undersigned so as to be received not later than Wednesday, 21st December, 1938.

W. H. BAINES, Town Clerk.

Municipal Buildings, Liverpool, 2, December, 1938.

**The Royal Army Medical Corps** ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

**Typewriting.—Specialists in Typing** Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

**Secretary requires position. Seven years** varied medical experience. Own typewriter. Would consider part-time or by the hour.—Address, No. 536, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

**For Sale, Medical Couch; excellent** condition, 30s. Radiant Heat Lamp, 15s.—"Ellaine," 10, Henrietta-place, Cavendish-square, W.1.

**West End Anæsthetist offers services** for Evening Surgeries or other Part-time Assisting in General Practice.—Address, No. 535, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

**Theatre-experienced Nurse, Young,** Hospital Certificate, wishes work with Doctor. References (Hospital and Private).—Phone Gulliver 3904 or write: S. Allen, 8, Gloucester-road, N.W.1.

**Wanted immediately, Practice,** Cheshire, Lancashire, Midlands. Good panel receipts about £1400–£2000. Good house, garden essential, ample capital available strictly confidential. Apply, R. SUMNER AND CO., LTD., 40, Hanover-street, Liverpool, 1.

**X Ray Apparatus For Sale.**

Newton & Wright 30 m.a. mobile set with Cox Cavendish Potter Bucky and all necessary accessories.

Installed under guarantee for inclusive price of £85.

The outfit would cost about £250 new.

Write Secretary, Cottage Hospital, South Molton, Devon.

**London.—Cora Hotel.** Upper Woburn-place, near B.M.A. Headquarters. Accommodates 235 visitors. Modern comforts.

Excellent table. A.A. and R.A.C. recommended.

Room, bath, and table d'hôte breakfast, 8s. 6d.

**Resident Patients.—Doctors desiring** accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1.

In consequence of the death of Dr. Cameron.

**The International Clinic,**

SHERWOOD PARK, TUNBRIDGE WELLS.

The equipment and apparatus of the famous Clinic, comprising

COSTLY MEDICAL APPLIANCES

including

Diathermy machines, Ultra Violet Ray lamps, Pyretic Steam Bath, Electro-Cardiographic Apparatus, X Ray Therapy, X Ray Diagnostic Plant, New Operating Table, and the Apparatus and Instruments in the Biochemical Laboratory, Workshop Machines, and Tools

and the complete furnishings of the Clinic

Will be sold by auction on the premises

on

Monday, Tuesday, and Wednesday, December 12th, 13th, and 14th, 1938.

Catalogues may be obtained from the Auctioneers

JACKSON STOPS & STAFF,

Stops House, Curzon-street, Mayfair, W.1.

The property is for sale with 10 to 66 Acres.

**Commodious Sky-lit Surgery to Let.** Large bed-sitting room, hall-waiting-room, and bathroom in West End hotel. Hotel service, private 'phone, etc., suitable for doctor, dentist, artist, photographer.—Write, Box 11, c/o Pool's, Brettenham House, Lancaster-place, W.C.2.

**Portland-place.—Fine Residential Flat** and Consulting Room for Doctor or Dentist. Ground floor and basement. Rent £350 per annum inclusive. Ivor Estate Co., 25, Charles-street, Haymarket, S.W.1. Whitehall 3920.

**Higher Bebington, near Birkenhead,** Cheshire.—Imposing sun-trap Corner Residence in good-class and rapidly developing locality, eminently suitable for medical or other professional gentleman. Freehold. No chief. Possession on completion.—Full particulars and orders to view from WORSLEY AND WORSLEY, F.A.I., 176/182, Conway-street, Birkenhead. Phones: 564/5.

To Let.—Premises suitable for Surgery and Consulting Rooms in Hampstead. Large basement could be used as Laboratory or Dispensary. £130 per annum. —Apply, WALTER THOMAS, 245, West End-lane, N.W.6. Tel. HAM 2838.

Streatham, S.W.16.—Detached House of 4 bedrooms (on one floor), lounge hall, study, drawing-room, dining-room, spacious bathroom, kitchen, scullery, &c., terrace garden, lawns, rosery, &c., garage with chauffeur's workshop. Very suitable for doctor. Freehold £2000. Key: CHRISTIES, 207, Longley-road, S.W.17. Phone: STReatham 7555.

Harley Street and District.—A number of excellent CONSULTING ROOMS are available for full and part-time use at moderate rents. Particulars on application.— ELGOOD & Co., 10, Henrietta-place, Cavendish-square, W.1. Lang. 2601.

*For available*

**CONSULTING ROOMS, PROFESSIONAL HOUSES AND FLATS**

**n Harley Street and the medical area generally including Mayfair**

**LEY CLARK and PARTNERS**

*Auctioneers, Surveyors, and Valuers*

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Harley-street. — In Physician's own House, Consulting-room Suite, handsomely decorated. Name plate and all services, £250 per annum; also part-time room with plate. Furnished treatment rooms and X ray available.—Address, No. 513, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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**Your Help is Needed by the**

**ROYAL SURGICAL AID SOCIETY**

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**SURGICAL APPLIANCES**

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*Wires:* HERBARIA, LESQUARE, LONDON.
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This old-established reliable Agency negotiates the Sale of PRACTICES AND PARTNERSHIPS on reasonable terms which can be obtained on application. LOCUM TENENS AND ASSISTANTS supplied free of charge to Principals.

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**Telegrams: "Epsomian, London." Phone: Temple Bar 9011 (3 lines)**
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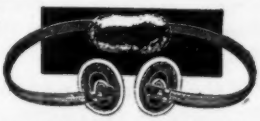

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| — 6 | r 15 | — 2 | —17 | r 19 | —19 |
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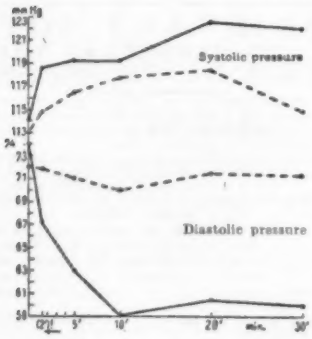


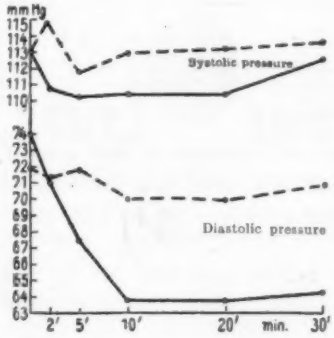


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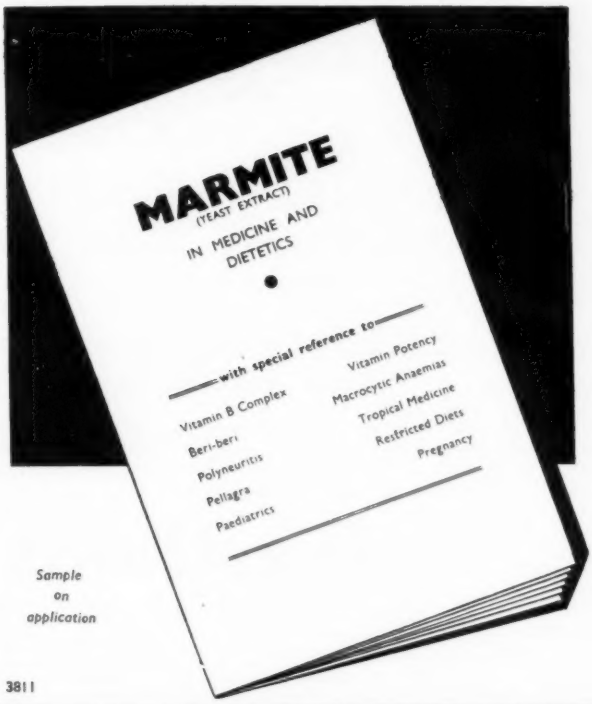


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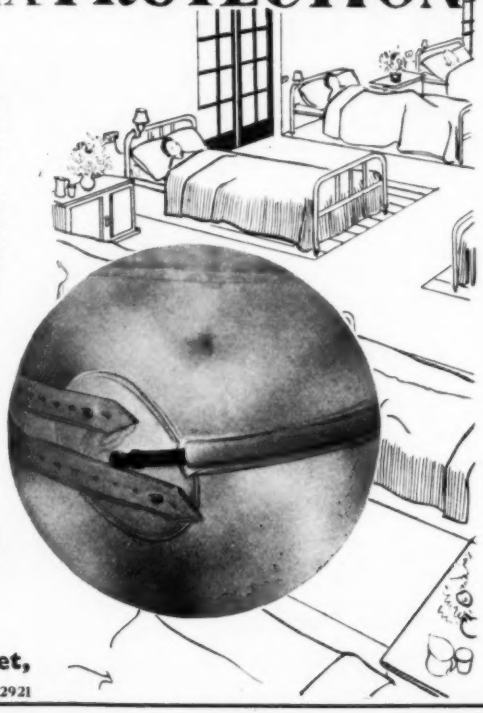

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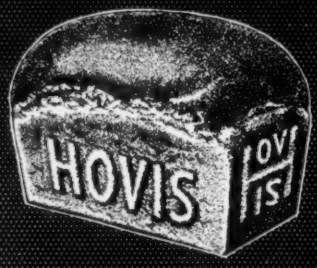


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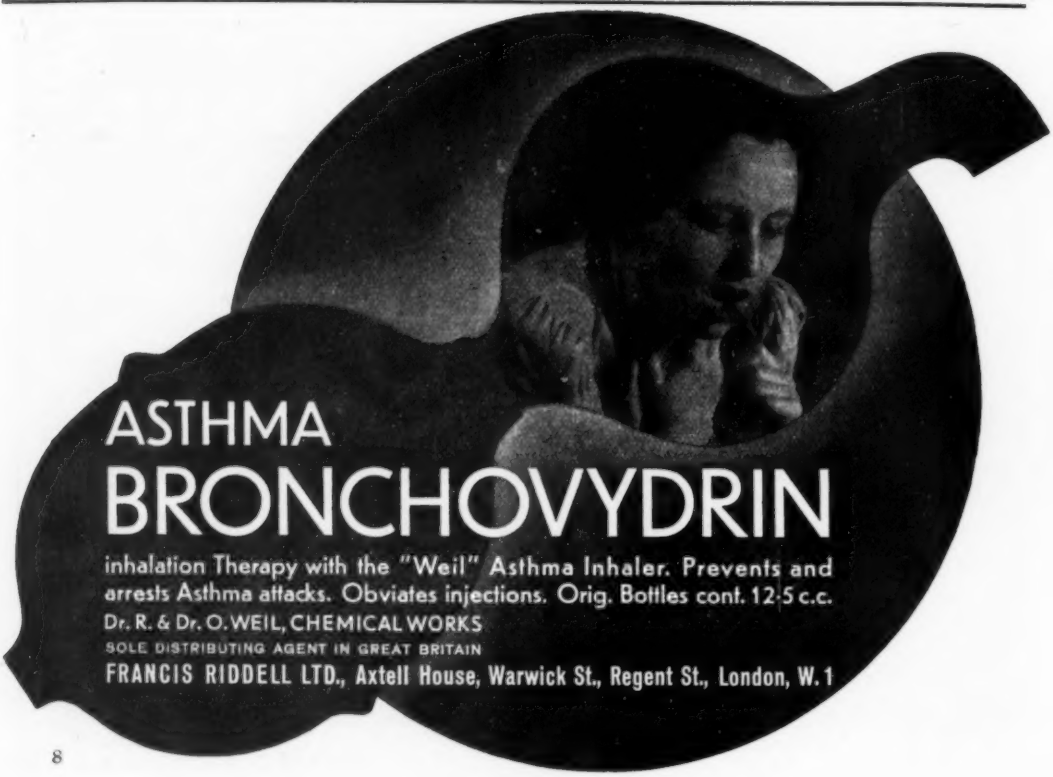

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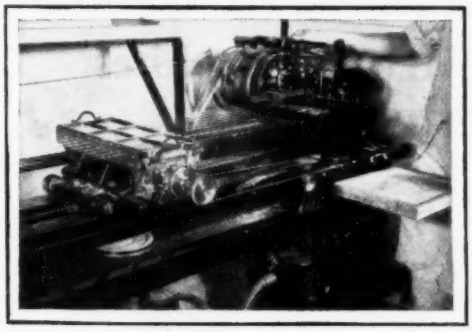

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**Allen & Hanburys Ltd., London, E.2** *Manufacturers of Surgical Instruments and Appliances, Sterilized Surgical Sutures, Hospital Furniture and Electro-Medical Apparatus*

**Showrooms: 48 WIGMORE STREET, LONDON, W.1**

# RELIABLE PREPARATIONS

## CREODYNE

(DUNCAN)

A palatable preparation of Lacto - Creosote, Codeina, Aconite, &c., specially suited for affections of the respiratory organs—Chronic Bronchitis, Coughs, Catarrh, &c., &c.

Duncan

## MIST. VALERIAN SEDAT.

(DUNCAN)

A well-blended preparation of Scotch-grown Valerian in combination with Bromide, Hyoscyamus, &c. Indicated in the treatment of Hysteria or whenever a nerve sedative is required.

In bottles of 4, 8, and 16 fluid ounces.

*Samples on application.*

## DUNCAN, FLOCKHART & CO.

EDINBURGH AND LONDON

104/8, Holyrood Road, 8. 155/7, Farringdon Road, E.C.1.

WHEREVER and WHENEVER

MINERAL METABOLISM

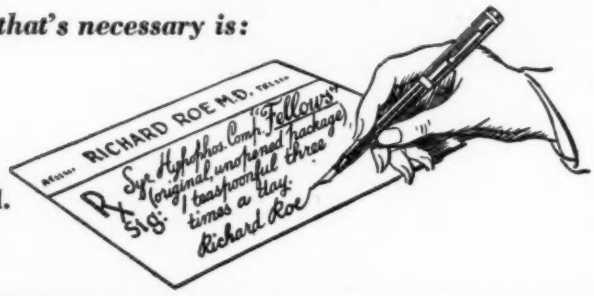
is important, the hydrogen-ion balancing qualities of

## Compound Syrup of Hypophosphites

TRADE **"FELLOWS"** MARK

have a distinct and important place.

***All that's necessary is:***




*Samples on request*

**Fellows Medical Mfg. Co., Ltd.**
**286 St. Paul Street West**
**Montreal, Canada**

# ACETYLCHOLINE B.D.H.

Substitution therapy by the administration of substances chemically identical with the active secretions of the body is a rational form of treatment in many disorders. For example, the administration of acetylcholine, the substance contained in the walls of the intestines which is necessary for the maintenance of intestinal peristalsis, is of immense value in overcoming certain forms of intestinal paralysis.

Acetylcholine is also administered with success in such conditions as Raynaud's disease, embolism of the retinal artery, amblyopias and post-operative abdominal distension.

Acetylcholine B.D.H. is a stable preparation of acetylcholine bromide issued in sterile solution containing 0.1 grm. in each 1 c.c. in ampoules of ½ c.c., 1 c.c. and 2 c.c.

*Sample on request*

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Telephone: Clerkenwell 3000 Telegrams: Tetradome Telex London

Acet/S/11

# Allenburys DEXTRIN-MALTOSE

THE use of Allenburys Dextrin-Maltose is indicated in digestive disorders of infants, children and adults.

This mixture of carbohydrates is easily digested, resists fermentation, and counteracts tendencies to diarrhœa. It makes milk more digestible.

In six forms:

No. 1 contains 2% of sodium chloride.

No. 2 is free from addition of sodium chloride.

No. 3 contains 3% of potassium bicarbonate.

No. 4 contains 150 units of Vitamin D per oz.

No. 5 contains iron and sodium chloride.

No. 6 contains a prophylactic proportion of the anti-scorbutic Vitamin C equivalent to 5 mg. of ascorbic acid per oz.

**ALLEN & HANBURYS LTD.**
**LONDON, E.2**

Telephone: Bishopsgate 3201 (12 lines)

Telegrams: "Greenburys Beth London"

*Descriptive literature and clinical trial sample will be sent post free on request to members of the medical profession.*

*The Treatment of Pyelitis*

Remarkable success follows the administration of Mandecal in the treatment of pyelitis, whether acute or chronic; these cases yield to treatment with astonishing rapidity. It is reported that acute cases are free from infection after only two weeks' treatment, whilst chronic infections which have extended over a long period of years, in spite of treatment with many other medicaments, have cleared up entirely after only a short course with Mandecal.

MANDECAL

(Compound Calcium Mandelate B.D.H.)

*Sample and literature on request*

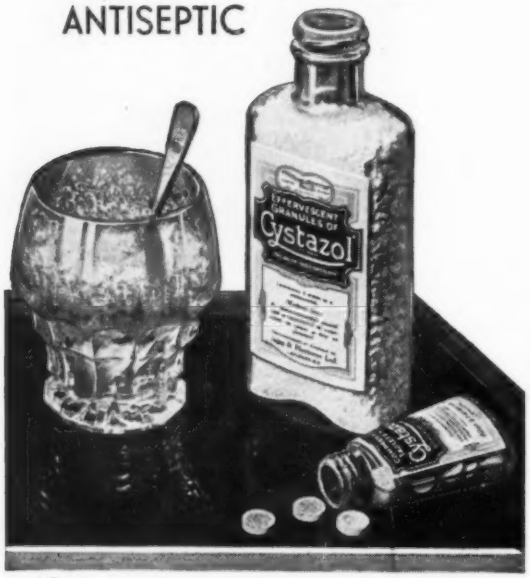
THE BRITISH DRUG HOUSES LTD.
LONDON N.1

Telephone: Clerkenwell 3000
Telegrams: Tetradome Telex London

Mncl/S/re

'CYSTAZOL'

A POWERFUL URINARY ANTISEPTIC




**'Cystazol'** is a combination of Hexamine with Sodium Benzoate: its action depends on the liberation of formaldehyde from the decomposition of the hexamine that takes place in the urine which has been rendered acid by the sodium benzoate moiety.

**'Cystazol'** is employed with advantage in cystitis, bacilluria of all types, pellagra, gonorrhœa and septic conditions of the urinary tract generally.

**COMPRESSED TABLETS of 'Cystazol'**

Supplied in bottles of 20, 40, 80, 160 and 500 (10 grain) tablets, at 1/6, 2/6, 4/6, 8/6 and 20/-

**EFFERVESCENT GRANULES of 'Cystazol'**

Supplied in bottles at 2/6 and 4/6.

***Descriptive literature and clinical trial sample will be sent post free on application.***

**Allen & Hanburys Ltd., London, E.2**

Telephone: Bishopsgate 3201 (12 lines) Telegrams: "Greenburys Beth London"

# Safety and Effectiveness

During oral therapy of genito-urinary infections paramount considerations confronting the physician are safety and effectiveness. Pyridium is established as a safe and effective remedy in the treatment of these conditions.

**Advantages of Pyridium therapy include :**

Prompt relief of distressing symptoms

Effectiveness in either acid or alkaline urine

Convenience of administration in tablet form

No special diet required

Elimination by the urinary tract without irritation or toxicity in therapeutic dosage

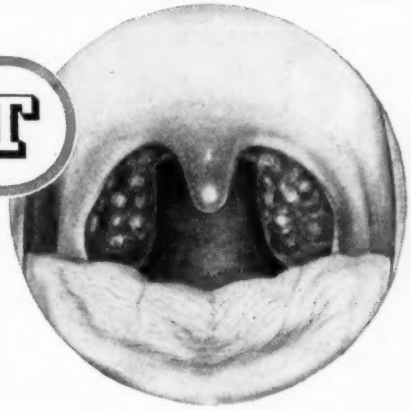
Gratifying clinical results as evidenced in the literature.

The value of Pyridium (phenyl-azo-alpha-alpha-diamino-pyridine hydrochloride) is established in cystitis, pyelitis, urethritis, prostatitis, vaginitis, and in pre-operative urinary tract infections.

*Samples on request*

MENLEY & JAMES LTD.
64 HATTON GARDEN, LONDON, E.C.1

# SORE THROAT



THE 'PLUS' PROPERTIES OF T.C.P.

## *destroy bacteria*

T.C.P. has an R.W. coefficient of 10 (dry salt). Its efficient bactericidal properties are due to its unique organic combination of chlorine and iodine. Its antiseptic action is not impaired by contact with body fluids.

## *relieve dysphagia*

The salicyl radicle in the T.C.P. molecule exerts a marked analgesic effect and this, coupled with its excellent penetrative power, ensures quick relief of inflammatory oedema and the resulting dysphagia.

T.C.P. is a safe antiseptic for use as a routine gargle or spray, in inflammatory and infective throat conditions. It does not irritate or injure the most sensitive tissues.

*A clinical sample of T.C.P. may be obtained by any physician from :— British Alkaloids Ltd., Dashwood House, London, E.C.2*

**T.C.P.** THE *plus* ANTISEPTIC

**PHOTOGRAPHS MORE POWERFUL THAN WORDS**

*PSORIASIS DURATION 15 YEARS* *COMPLETE ELIMINATION 8 WEEKS*

In illustrating this case of Psoriasis, which responded to BELZEMA BRAND OINTMENT and BELZEMA SOAP in a manner typical of many hundreds of cases upon our files, we take the opportunity of reminding you that BELZEMA publicity does not encourage self-diagnosis and is confined strictly to the Medical Profession. Fullest information and trial samples will be gladly sent to any Practitioner on request.

**BELZEMA SOAP**

cleanses and prepares the skin for the absorption of Belzema Ointment. It is absolutely pure—contains no synthetic perfume—no artificial colouring—no free alkali—recommended for personal hygiene.

**EVERY PHYSICIAN SHOULD TEST**

**BELZEMA BRAND OINTMENT**

**INDICATIONS:** Eczema, Psoriasis, Alopecia, Ringworm, Dandruff, Acne, and other skin disorders Belzema Ointment has the widest sphere of application in the treatment of diseases of the skin and is free from undesirable side action.

**ADVANTAGES:** Readily absorbent—non-staining—non-greasy—anti-pruritic—antiseptic—anti-parasitic—no bandaging required.

**Send for samples for clinical trial to:**

**BROOKS & WARBURTON LTD., 232/240, Vauxhall Bridge Road, London, S.W.1. Sole Distributors for the Belmont Laboratories, Inc.**

**Ergoapiol-(Smith)**

**A Menstrual Regulator . . .**

When the periods are irregular, due to constitutional causes, ERGOAPIOL (Smith) is a reliable prescription. Containing apiol (M.H.S. special) together with ergot, aloin and oil of savin of the highest quality, this preparation effectively stimulates uterine tone and controls menstrual and postpartum bleeding.

In cases of *Amenorrhea*, *Dysmenorrhea*, *Menorrhagia* and *Metrorrhagia*, Ergoapiol serves as a good uterine tonic and hemostatic. Valuable in obstetrics after delivery of the child and for the menstrual irregularity of the *Menopause*.

Prescribe 1 to 2 capsules 3 or 4 times daily. Supplied only in packages of 20 capsules. Literature on request.

As a safeguard against imposition the letters MHS are embossed on the inner surface of each capsule, *visible only* when the capsule is cut in half at seam as shown.

M.H.S.

MARTIN H. SMITH COMPANY
NEW YORK, N.Y., U.S.A.

THOS. CHRISTY & CO., Ltd., 4-12 OLD SWAN LANE, LONDON, E. C. 4, ENGLAND
Agents for Great Britain and Ireland

# 'ENTORAL'

TRADE MARK BRAND

## ORAL COLD VACCINE

**FOR PROPHYLACTIC IMMUNISATION TO RESPIRATORY INFECTIONS AND PARTICULARLY TO THE COMMON COLD**

'ENTORAL' IS AN IMMUNISING ANTIGEN WHICH, WHEN GIVEN ORALLY, WILL PRODUCE HETEROPHILE ANTIBODY IN SUFFICIENT AMOUNTS TO INCREASE MATERIALLY THE RESISTANCE OF INDIVIDUALS TO RESPIRATORY INFECTIONS. ISSUED IN PACKAGES OF 20 AND 60 'PULVULES' BRAND FILLED CAPSULES

## ELI LILLY AND COMPANY LIMITED

*2, 3 and 4, DEAN STREET, LONDON, W.1.*

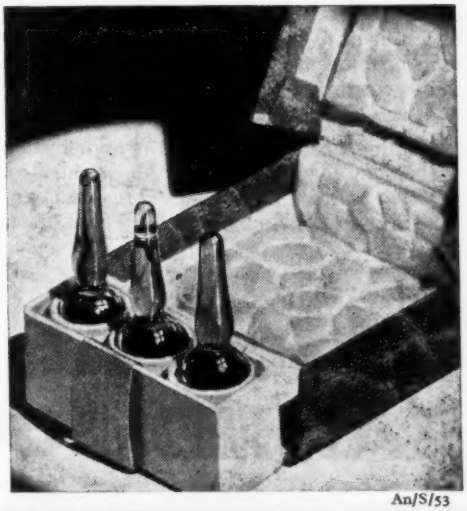
*Telephone: GERrard 2144.*

*Distributing Agent in Britain for*

**ELI LILLY AND COMPANY, INDIANAPOLIS, INDIANA, U.S.A.**

*'. . . a truly marvellous result' - - —*M.B. Ch.B.

Thus does a physician sum up his experience in a case of pernicious anæmia treated with Anahæmin B.D.H. In the specific case reported upon, during a period from 12.10.38 to 10.11.38, the red cells rose from 1,350,000 to 4,200,000, the white cells from 2,400 to 4,200, hæmoglobin from 34% to 86%, and the colour index fell from 1.2 to 1.0. These results were achieved by the following dosage; an initial dose of 4 c.c., followed four days later by 1 c.c. and, subsequently, for three weeks by weekly injections of 1 c.c., making in all a total of 8 c.c.



## ANAHÆMIN B.D.H.

*Sample on request*

THE BRITISH DRUG HOUSES LTD.
LONDON N.1

Telephone: Clerkenwell 3000
Telegrams: Tetradome Telex London

An/S/53

# Pediatrists approve these purées

## *A range of Strained Foods giving maximum nutritive values*

THE nutritional value of vegetable purées for infants and soft diet cases is receiving the endorsement of the medical profession to a very marked degree.

Hitherto the difficulties and deficiencies of home preparation—inefficient sieving and destructive oxidation—not to mention the tedium and labour involved—have hindered practical application, but the introduction of a complete range of strained foods by H. J. Heinz Co. Ltd. has been universally accepted as the solution of this problem.

H. J. Heinz Co. Ltd., with their exceptional experience in food preparation, have recognised the legitimate possibilities of supplying strained foods of that maximum nutritive value, uniformity and convenience which only good factory practice can achieve.

The vegetable and fruit purées of H. J. Heinz Co. Ltd. are prepared under conditions of the most scrupulous care with special reference to minimising mechanical loss of mineral salts and other soluble nutriments. The edible portions are washed and trimmed and then cooked under light steam pressure until in perfect disposition for comminution by extrusion and cutting. All mineral salts, vitamins and other soluble nutriments are retained, while harsher fibres, if any, are so reduced as to be non-irritant. The raw materials are purchased when and where seasonal and regional conditions of growth are most favourable, and only fresh gathered vegetables of the highest quality are used.

After the straining process the purée is adjusted to a proper solid content convenient for marketing. Absorbed air is removed and sealing *in vacuo* follows in specially prepared enamel-lined containers. The process concludes with high-temperature sterilisation.

| PEAS | |
|---|---|
| PROTEIN | 4·5 |
| CARBOHYDRATES | 6·8 |
| CALCIUM | 0·012 |
| PHOSPHORUS | 0·083 |
| IRON | 0·0016 |
| VITAMIN A. | GOOD |
| VITAMIN B. | V.GOOD |
| VITAMIN C. | V.GOOD |
| VITAMIN G. | FAIR |
| CALORIES PER OZ. | 17·0 |

*A typical example of the high nutritive values retained in Heinz Strained Foods. (Figures show percentages on the wet basis)*

*NOTE: Glass containers are not used owing to the deteriorating effect of light on vitamin content and on the palatability of the products.*

# HEINZ STRAINED FOODS

- SPINACH
- TOMATOES
- CARROTS
- VEGETABLE SOUP
- PEAS
- GREEN BEANS
- MIXED GREENS
- BEETS
- PRUNES
- CEREAL
- APRICOTS AND APPLE SAUCE
- BEEF & LIVER SOUP

★ ***Fully explanatory literature and samples gladly sent on request.***

H. J. HEINZ COMPANY LIMITED, HARLESDEN, LONDON, N.W.10

# HOW WHOLE WHEAT CRISPBREAD BENEFITS HEALTH

WHEAT has always been Man's first choice among the cereals, whenever climatic conditions did not prevent his getting it. That remains true of all bread, either white or wholemeal, either soft or biscuit-crisp. And Vita-Weat, the wheaten crispbread with the WHOLE of the wheat left in it, has advantages which entitle it to a very high place among the staple foods of the world.

**Its Calorific Value**

Bread is *the* 'energy component' and Vita-Weat, since it contains only 3 per cent. of water, has a fuel-value nearly twice that of ordinary bread—according to The Practitioner its calorie value is 2,132 per lb.

Each section of such a crispbread—each 'slice,' so to speak—has a calorie value of 37. That is to say that in meeting what is probably the greatest requirement of a national staple food Vita-Weat is almost twice as effective as the softer kinds of wheaten bread.

**Starch and Digestion**

A crispbread, obviously, calls for a more thorough chewing than a soft 'crumb' bread and salivation is therefore more healthily promoted. The starches and cellulose in Vita-Weat are also 'converted' into a more digestible form by the special processes which go to make a good crispbread—just as toast and crust have become greatly more digestible than bread in its quite 'unconverted' starchy form. While *all* the wheat-berry is used the bran and fibre are thoroughly disintegrated.

The result is, therefore, that the weight which quantities of 'unconverted' starch place on the digestion is almost entirely eliminated where Vita-Weat has been prescribed.

**VITA-WEAT AND ITS ADVANTAGES**

In addition to these great advantages of superior fuel-value and digestibility Vita-Weat retains the 'protective' elements of the wheat-berry which are frequently rejected in the 'refining' of white flours. Proteins, vitamins and minerals in which bread is normally deficient are present and the 'balance' of this crispbread as a food is therefore increased.

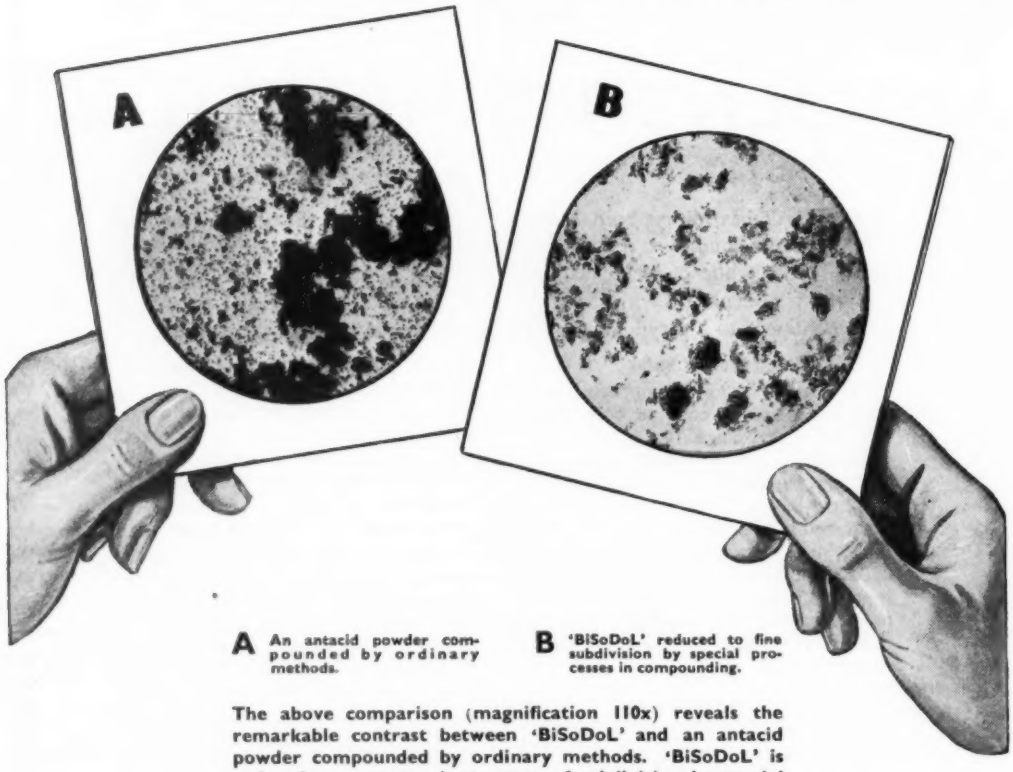
The use of Vita-Weat can be shown to be especially desirable in cases of mild anaemia, liability to infection, lack of appetite, poor digestion, diabetes, obesity and as a food of 'protective' value to the teeth.

*A little booklet has been prepared for the medical profession briefly summarising the medical case for a whole wheat crispbread and it will gladly be sent post-free to any doctor on application to Peek Frean & Co. Ltd., Keetons Road, London, S.E.16.*

Vita-Weat REGD.

THE BRITISH WHOLE WHEAT CRISPBREAD

# The Microphotograph reveals the DIFFERENCE




**A** An antacid powder compounded by ordinary methods.

**B** 'BiSoDoL' reduced to fine subdivision by special processes in compounding.

The above comparison (magnification 110x) reveals the remarkable contrast between 'BiSoDoL' and an antacid powder compounded by ordinary methods. 'BiSoDoL' is reduced to a most minute state of subdivision by special processes in compounding, thus increasing the therapeutic value of the preparation.

Composed of magnesium carbonate, bismuth subnitrate, papain, diastase, sodium bicarbonate and oil of peppermint, 'BiSoDoL' offers an elegant and palatable antacid for use in the routine treatment of gastric hyperacidity.

*Samples on request.*

**BiSoDoL** REGD

BISODOL LTD., 12 CHENIES STREET
LONDON W.C.I. Tel: MUSEUM 9024

# COD LIVER OIL DOSAGE AND VITAMIN CONTENT —THE OFFICIAL RULING

**Many practitioners have found that their patients still believe it necessary to take large doses of cod liver oil, and in consequence resort to other liver oils of uncertain origin and widely varying vitamin content. Reference, however, to the latest Addendum (1936) of the British Pharmacopœia shows that the standard dosage for cod liver oil is very much smaller than conventionally supposed and, moreover, that a definite vitamin content and origin are specified.**

The ruling on vitamin content is that each gramme of cod liver oil shall contain not less than 600 International Units of Vitamin A and not less than 85 International Units of Vitamin D. Given this content, the minimum dose of cod liver oil is fixed at 15 minims (a quarter teaspoonful) three times a day.

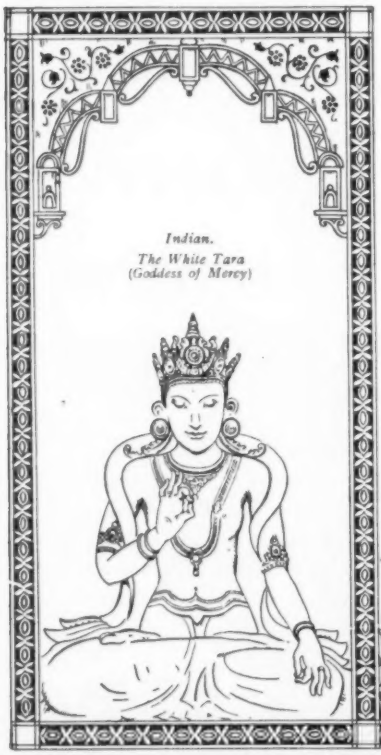
The advantages of being able to prescribe a cod liver oil which is guaranteed to conform to this ruling of the British Pharmacopœia are obvious. The smaller dose is readily acceptable by the patient, which fact makes it unnecessary to resort to other liver oils whose vitamin contents are uncertain both as to origin and efficiency and which have none of the proved food values of Cod Liver Oil.

'SevenSeaS' Cod Liver Oil is guaranteed to conform to the British Pharmacopœia requirements, and it has the additional advantage of being made from absolutely *fresh* livers. The small dose of Cod Liver Oil now needed and the pleasant taste of 'SevenSeaS' Cod Liver Oil arise from the fact that 'SevenSeaS' trawlers are equipped to render the oil on board, immediately the fish are caught. This is possible only with cods' livers, owing to their high percentage of oil. It cannot be done with the livers of other fish.

In the case of 'SevenSeaS' High Potency Oil, the dosage is reduced to a matter of drops only, for this oil has a guaranteed vitamin content of four times British Pharmacopœia standard. It is not concentrated or fortified in any way, but is obtained simply by selection from fresh cod livers with a naturally high vitamin content. This High Potency Oil should be of particular interest to practitioners wishing to prescribe for patients who cannot assimilate fat or have a tendency towards acidosis.

All 'SevenSeaS' oil is thoroughly tested before being issued to the public. It is prepared and packed in strict conformity with British Pharmacopœia requirements. Samples of the High Potency Oil, the Standard Oil, and the High Potency Oil in capsules will be sent on request.

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD. · ST. ANDREW'S DOCK · HULL · ENGLAND




# "ALOCOL"

## Colloidal Hydroxide of Aluminium

## For Gastric or Duodenal Ulcer

IN view of the increasing adoption of intensive alkaline medication for gastric and duodenal ulceration, the selection of a suitable antacid agent is a matter of considerable importance to the general practitioner.

"Alocol" allows of antacid therapy in a particularly effective, safe and reliable form, and replaces with advantage mixtures composed of sodium bicarbonate, magnesia, bismuth, etc. It does not determine any unpleasant secondary reactions, even when taken in strong doses and over a long period of time.

The powerful antacid effect of "Alocol" is more mechanical than chemical in nature. It acts by adsorbing excess of hydrochloric acid, thus facilitating its elimination. It promptly relieves pain, and being non-absorbable is free from toxic sequelæ.

*Complete chemical history of "Alocol," with convincing clinical reports and supply for trial sent free to physicians on request.*

A. WANDER, LTD., Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
*Works: KING'S LANGLEY, HERTFORDSHIRE.*

M282

# ALASIL

## Safe Salicylate Therapy

THE popularity of acetyl-salicylic acid is undoubtedly due to the fact that it is one of the safest and most effective non-narcotic analgesics available. Too often, however, its use has been discarded by the physician on account of its tendency to irritate the stomach and because entirely pure preparations are not always available.

"Alasil" provides the beneficial therapeutic effects of pure acetyl-salicylic acid in such a form that it is acceptable even by disordered digestions. This tolerability is due to the fact that it combines calcium acetyl-salicylate—the least irritating salicylate compound—with "Alocol," a potent gastric sedative and antacid.

Since "Alasil" is better tolerated than acetyl-salicylic acid its use can be pushed or prolonged to a much greater extent than the latter. "Alasil" is, therefore, an analgesic, antipyretic, and anti-rheumatic, which can be employed with complete confidence in all the many conditions in which such an agent is indicated.

*A supply for clinical trial with full descriptive literature sent free on request:*

A. WANDER, Ltd., Manufacturing Chemists,
184, QUEEN'S GATE, LONDON, S.W.7.

4267

# The CONSTIPATED CHILD

Agarol simplifies the treatment of constipation by making it pleasant; children not only take Agarol with the greatest of ease but actually enjoy it.

This palatable emulsion of mineral oil and agar-agar with phenolphthalein is the ideal treatment for constipation in children. It is gentle in action and furnishes the natural stimulus to a comfortable and normal peristalsis. Its capacity for lubricating the bowel, softening the faecal mass and easing its passage to the rectum and final expulsion, is unsurpassed.

Further advantages of Agarol are that it is not habit-forming and, by mixing freely with the intestinal contents, it makes the occurrence of seepage extremely improbable.

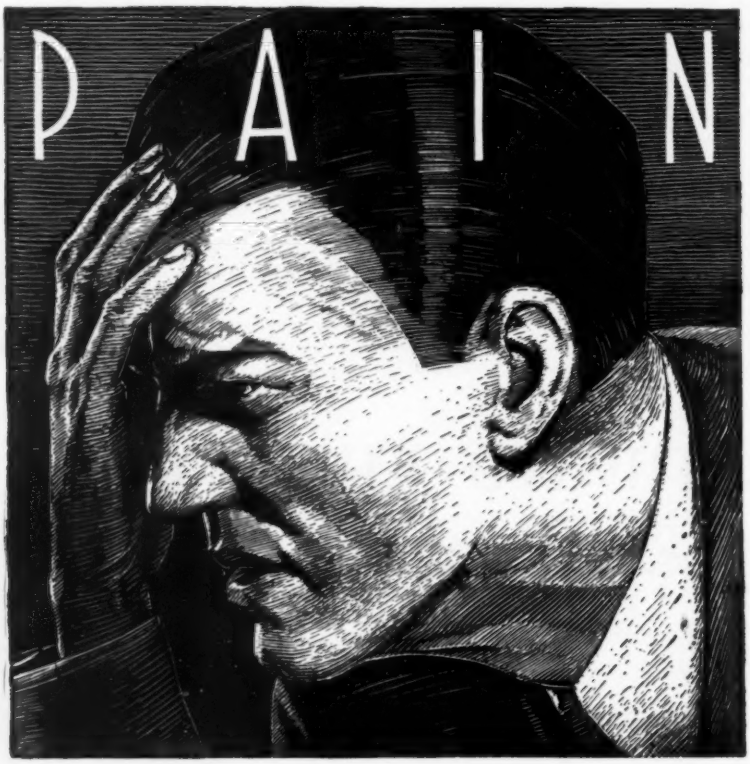
# AGAROL

BRAND COMPOUND

Agarol is not advertised to the public. Supplied in 4½ oz., 7½ oz. and 17 oz. bottles.

*Trial supplies to members of the Medical Profession on request.*

WILLIAM R. WARNER & CO. LTD., POWER ROAD, CHISWICK, LONDON, W.4.




# HEADACHE IS DISABLING

**Headache may be as disabling as a grave illness. In migraine particularly, the headache is of all degrees of intensity, at times so severe as completely to incapacitate the sufferer. It is noteworthy how quickly the patient can obtain relief with Veganin. Composed of minimum doses of acetylsalicylic acid, phenacetin and codeine, Veganin affords striking proof of the superior analgesic potency of this synergistic alliance over that of its components administered separately. Recurrent painful conditions, such as migraine and dysmenorrhœa, yield with impressive promptness to the efficacy of Veganin.**

Veganin Brand Tablets are supplied in tubes of 10 and 20; quantities of 100, 500 and 1000 are available for dispensing. (Veganin is not advertised to the public.)

*A supply for clinical trial sent on request to Members of the Medical Profession.*

**WILLIAM R. WARNER & CO. LTD., POWER ROAD, CHISWICK, LONDON, W.4.**

**VEGANIN BRAND TABLETS**

Made in England

# The Prophylaxis of Diphtheria

The following prophylactics are made and standardised at

THE EVANS BIOLOGICAL INSTITUTE

**A.P.T. Evans**
(Alum Precipitated Toxoid)

A "two-dose" prophylactic prepared by precipitating the antigenic fraction of formol toxoid of high value with alum. The first injection should be 0.1 to 0.2 cc. and the final injection 0.5 cc. after two weeks. For children of eight years and under.

**T.A.F. Evans**
(Toxoid Antitoxin Floccules)

T.A.F. should be used when the subject is more than eight years of age. T.A.F. has a high immunising efficiency whilst reaction is rare.

**T.A.M. Evans**
(Toxoid Antitoxin Mixture)

Produces immunity more slowly and is generally recognised to be less efficient than A.P.T. and T.A.F.

**F.T. Evans**
(Formol Toxoid)

An efficient prophylactic. It may cause disturbance in some older children and in adults. It is recommended that its use be restricted to children between 1 and 8 years of age.

**Dosage of F.T., T.A.M., and T.A.F.**

These "three-dose" prophylactics are administered subcutaneously. With the F.T. and T.A.M. the doses are 0.5 cc., 1 cc. and 1 cc., but with T.A.F. each 1 cc. A course of 0.5 cc., 1 cc. and 1.5 cc. has also been suggested. It is recommended that the intervals between the injections should be one or preferably two weeks.

In the very few instances where a positive Schick reaction is obtained after such a course of treatment further injections are necessary to establish immunity. It is recommended that the Schick Test be made not earlier than eight weeks after the third injection.

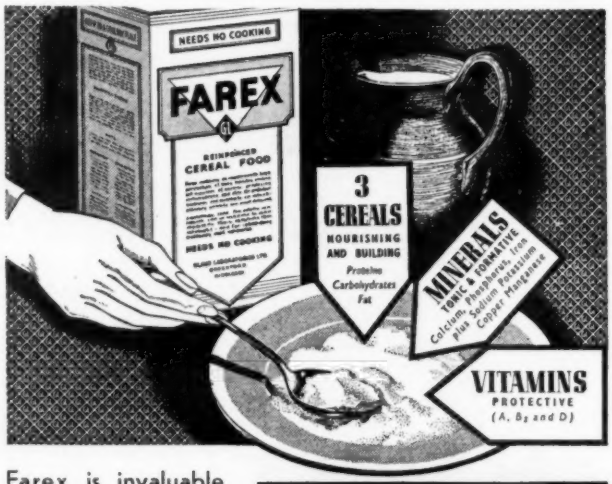
*(Special prices and detailed literature will be forwarded to Public Health Authorities)*

**Evans Sons Lescher & Webb Ltd.**
**LIVERPOOL and LONDON**

# Balanced nutrition for your patient

*of any age*

Farex is a blend of 3 cereals—wheat, oatmeal and maize. In addition to providing an adequate proportion of carbohydrate, it contains a special amount of protein. It is rich in minerals (including iron, calcium and phosphorus) . . . it has a naturally high content of vitamins A and D. Thus Farex provides nourishment and protective elements in an easily digestible form for infants, children, adolescents and adults, whether ill or well.




Farex is invaluable for WEANING, and it helps to make good the diet deficiencies that occur in CHILDREN, ADOLESCENTS, ADULTS and INVALIDS

**FAREX**

—THE REINFORCED CEREAL FOOD

PRODUCT OF THE GLAXO LABORATORIES

IN CARTONS, 1/- and 1/9 (double size)

GLAXO LABORATORIES LIMITED, GREENFORD, MIDDLESEX BYRon 3434

PRODUCT OF THE GLAXO LABORATORIES

# WINTER'S CALL FOR CALCIUM

*is also a call for vitamin D*

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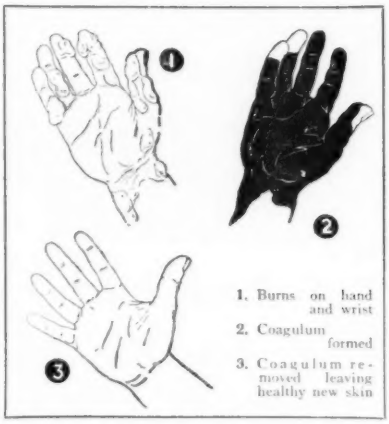


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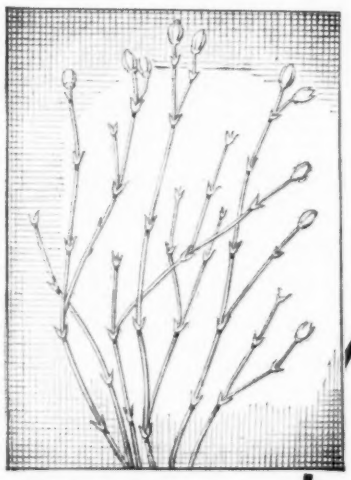

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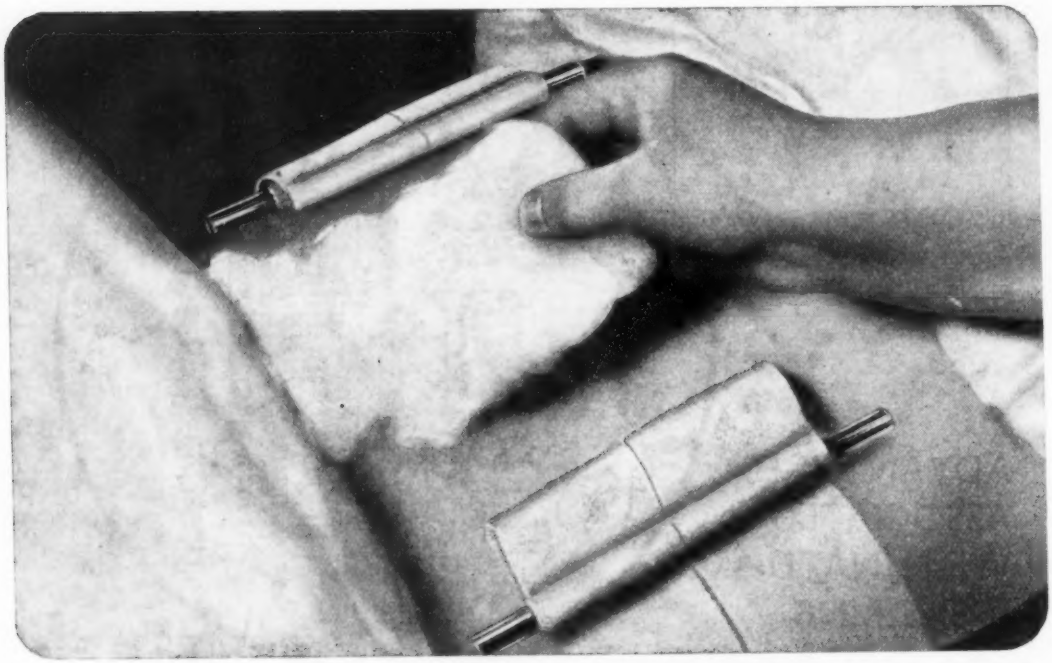
*(excerpts from the film "The Use of 'Elastoplast' in Modern Surgery")*



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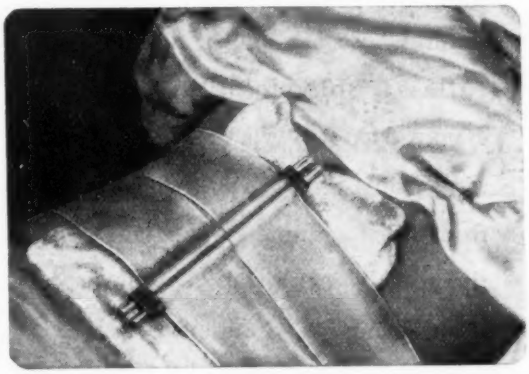

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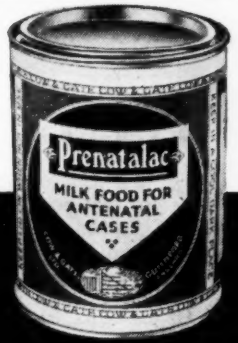


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[*See also pp.* 9, 11, & 12.]

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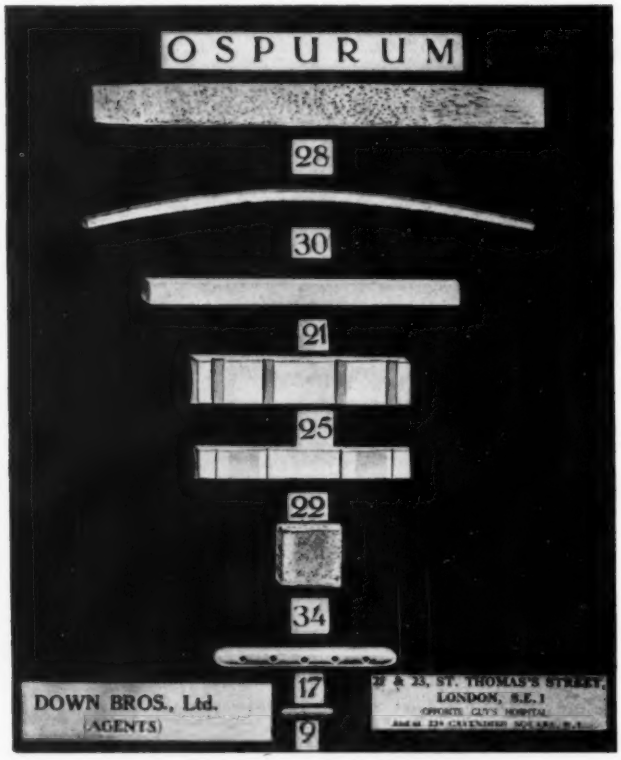


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*Vide Surg. Gyn. Obst., January, 1938*

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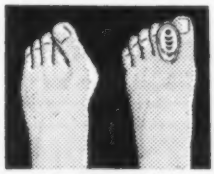

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|---|---|---|
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| " 5, Thurs. | Ringworm Infections .. .. | Dr. J. M. H. MACLEOD. |
| " 10, Tues. | Sclerodermia .. .. .. | Dr. G. B. DOWLING. |
| " 12, Thurs. | Pigmentary Disorders .. .. | Dr. W. N. GOLDSMITH. |
| " 17, Tues. | Eczema .. .. .. .. | Dr. W. GRIFFITH. |
| " 18, Wed. | Introduction to Histopathology of the Skin .. .. .. | Dr. I. MUENDE. |
| " 24, Tues. | Sycosis .. .. .. .. | Dr. L. FORMAN. |
| " 26, Thurs. | Erythemato-squamous Eruptions .. .. .. .. | Dr. G. DUCKWORTH. |
| " 31, Tues. | Tuberculosis Cutis .. .. | Dr. J. E. M. WIGLEY. |
| Feb. 2, Thurs. | Electro-therapeutics .. .. | Dr. R. T. BRAIN. |
| " 7, Tues. | Common Skin Diseases in Childhood .. .. .. | Dr. H. T. BARRON. |
| " 9, Thurs. | Bullous Eruptions .. .. | Dr. J. L. FRANKLIN. |
| " 14, Tues. | Diseases of the Nails .. .. | Dr. H. CORSI. |
| " 15, Wed. | Histopathology of some Common Skin Diseases .. .. | Dr. I. MUENDE. |
| " 21, Tues. | The Treatment of Acne .. | Dr. HUGH GORDON. |
| " 23, Thurs. | Malignant Conditions of the Skin .. .. .. .. | Dr. A. BURROWS. |
| " 28, Tues. | Treatment in Diseases of the Skin .. .. .. .. | Dr. J. A. DRAKE. |

An Examination will be held at the end of the Course in March, and the CHESTERFIELD MEDAL will be awarded to the best candidate, provided the required standard is reached. An intensive Course will also be held during the month of May.

CLINICS.—Instruction will be given daily in the Out-Patient Department, as follows:—

Monday, 2 P.M. .. .. Dr. GRIFFITH
6 P.M. .. .. Dr. MUENDE (Pathologist)
Tuesday, 2 P.M. .. .. THE MEDICAL REGISTRAR
6 P.M. .. .. Dr. FORMAN
Wednesday, 2 P.M. .. .. Dr. WIGLEY
6 P.M. .. .. Dr. DOWLING
Thursday, 2 P.M. .. .. Dr. CORSI
6 P.M. .. .. Dr. GOLDSMITH
Friday, 2 P.M. .. .. Dr. DUCKWORTH
6 P.M. .. .. Dr. BRAIN
Saturday, 9.30 A.M. .. Dr. PORTER

LABORATORY.—Arrangements can be made for Classes, individual instruction, or for research work. For Particulars and Fees apply to the Dean.

FEES.—For Hospital Practice, including Lectures, One Guinea per month. Registered Medical Students may attend the Lectures free on signing their names and giving the name of their Hospital.

Medical Practitioners will be welcome as occasional visitors on presentation of their cards. For further particulars apply to Dean or Secretary.

LEONARD G. R. TURPIN, Secretary. J. E. M. WIGLEY, M.B., F.R.C.P., Dean.

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on JANUARY 6th, 13th, 20th, 27th, FEBRUARY 3th, 10th, 1939, at 2.30 p.m.

## Department of Pathology

A COURSE OF FOUR LECTURES on

**Nephritis, and Renal Changes in Hypertension**

WILL BE GIVEN BY

**Professor J. SHAW DUNN, M.A., M.D.**

on JANUARY 11th, 18th, 25th, FEBRUARY 1st, 1939, at 4.30 p.m.

## Department of Medicine

A COURSE OF SIX LECTURES on

**NEPHRITIS**

WILL BE GIVEN BY

**Dr. T. IZOD BENNETT, M.D., F.R.C.P.,** on JANUARY 10th, 16th, 17th, 24th, 31st, 1939

AND BY

**Professor J. H. DIBLE, M.B., Ch.B., F.R.C.P.,** on JANUARY 23rd, 1939, at 4.30 p.m.

These lectures are for regular students of the School, but a limited number of tickets are available, without fee, for medical practitioners. Applications for tickets should be addressed to the DEAN, BRITISH POSTGRADUATE MEDICAL SCHOOL, DUCANE-ROAD, SHEPHERD'S BUSH, LONDON, W. 12.

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A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

# ALCOHOLISM

***Drug Habits, and Nervous Disorders***

25 minutes from London, situated in charming grounds and country is a "home from home" for those seeking rest and treatment under medical supervision. Fees from 6 guineas. Illustrated brochure on application to the Matron or the **RESIDENT MEDICAL SUPERINTENDENT,** E. G. MORRIS, L.R.C.S.I., L.R.C.P.I. Consultant: L. C. F. CHEVENS, M.R.C.S., L.R.C.P., D.P.M.

**'Phone: CHISLEHURST 451**

# OLD HILL HOUSE

**CHISLEHURST, KENT.**

# EPILEPSY

Owing to extensions there are at present a few Vacancies at the

## DAVID LEWIS COLONY

For Ladies and Gentlemen who have Epilepsy but are of good intelligence and sound mind.

Colony life gives to most people who have epilepsy the best chance of happiness and contentment.

Apply to the DIRECTOR, THE DAVID LEWIS COLONY, WARFORD, ALDERLEY EDGE.

# HILL END HOSPITAL AND CLINIC

**FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS**

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

**HIGHFIELD HALL,**

situate about a mile away from the Hospital.

FEES TWO TO FOUR GUINEAS PER WEEK.

For further particulars apply to the Medical Director, W. J. T. KIMBER, L.R.C.P., D.P.M.

## ST. ALBANS, HERTS

# BARNWOOD HOUSE, GLOUCESTER.

A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

Telephone: No. 6207 Gloucester.

# FENSTANTON

**Christchurch Road, Streatham Hill, S.W.2**

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

*Apply:* **Dr. MADELINE R. LOCKWOOD,**
*phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

# BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

*For further particulars apply—*
Dr. ERNEST ROLLINS, Resident Physician.
*Tel.:* Amherst 1642.

# STRETTON HOUSE,

**Church Stretton, Shropshire.**

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

## THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

**President: The Right Hon. the LORD SAYE AND SELE.**

**This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.**

**For further particulars apply to the Physician-Superintendent.**

## RHEUMA SPA, KINMEL HALL,

**ABERGELE, NORTH WALES**

**Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.**

*IDEAL WINTER QUARTERS—REDUCED RATES*

# EPPING HOUSE

## LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

**An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.**

**Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.**

***Telephone:* Essenden 12. *Apply*, J. C. BAKER, M.B.**

## CHISWICK HOUSE,

**PINNER, MIDDLESEX.**

**Telephone: PINNER 234.**

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

**DOUGLAS MACAULAY, M.D., D.P.M.**

## CITY OF LONDON MENTAL HOSPITAL

**Near DARTFORD, KENT.**

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

## THE CLINIC

**20 Devonshire Place**

**London, W.1**

***Tel.: Welbeck 4444 (20 lines)***

**A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES**

**Fees 10 gns. to 18 gns. per week (Average—14 gns.).**
**8 Operating Theatres.**
**150 State Registered Nurses.**
**2 Resident Medical Officers (for emergencies).**
**Patients only received under the supervision of their own Medical Practitioner.**
**Drugs and Dressings free (other than Proprietary Articles).**
**Illustrated Brochure on application to Secretary.**

## Smedley's

**Great Britain's Greatest Hydro**

**Matlock**

Unrivalled suites of Baths—Turkish and Russian Baths. Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

*Resident Physicians:* G. C. R. HARBINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*

*'Phone:* Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

## THE MARINE SPA

(under the direction of the Corporation)

# TORQUAY

Newly fitted Balneological, Electro-Medical, and Small Turkish and Russian Bath sections for recognised forms of Spa, etc., treatment, under mild winter climatic conditions. Large Cooling Lounge, and "Vita" Glass Sun Lounge. Warm Sea-Water Swimming Bath with modern filtration plant. Assistants with C.S.M.M.G., and Bio-Physical qualifications.

*Illustrated Spa and Health Resort Brochures post free on application.*

**H. Berkeley Hollyer**, General Manager.
(late Manager, Brine Baths, Droitwich Spa)

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## OSPEDALETTI BORDIGHERA

**The three pearls of the Italian Reviera.**

Mild climate, brilliant sky and pure air—during Winter daily 9–12 hours' sunshine—quiet and favoured resort for convalescents and people in need of quietude.

**SAN REMO—HOTEL REALE**

For every comfort and attraction. On the promenade. Overlooking the sea.

M. Bertolini, Prop.

**SAN REMO—EXCELSIOR**

First class, quiet, protected South position in the East Bay. Diet cures. Sun verandas. Sea—and medical bathing. Tennis. Open the whole year round.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

## The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of ASSISTANT SURGEON to the Hospital. Candidates must be Fellows of the Royal College of Surgeons of England, or Masters of Surgery of a recognised British University.

The appointment is made subject to Rules and Conditions laid down by the Charter of Incorporation, details of which can be obtained from the Secretary.

Applications (eighteen copies), with copies of not more than three recent testimonials, should be sent to the undersigned by not later than the first post on Monday, 19th December, 1938.

CLEMENT COBBOLD, Secretary.

## BOARD OF CONTROL, ENGLAND AND WALES

The Board of Control (Lunacy and Mental Deficiency) invite applications from registered Medical Practitioners (Men and Women) for a vacant appointment as COMMISSIONER on the Board's staff.

Candidates should be experienced in the care and treatment of persons suffering from mental disorder or mental defect.

The salary commences at £850 per annum and rises by 11 annual increments of £30 to £1180 and then to £1200 per annum. In the case of a candidate with special experience of the administration of mental institutions, the commencing salary may be advanced to a point, not exceeding £75, above the minimum of the scale.

The appointment will be subject to the usual Civil Service conditions as to pension, holidays, &c., and also, in the case of women, marriage. Subject to certain conditions, previous established service in a Mental Hospital or Mental Deficiency Institution can be aggregated with Civil Service for superannuation purposes.

Commissioners are required to devote their whole time to the Public Service.

Canvassing through members of Parliament or in other ways will render a candidate liable to disqualification.

Forms of application with further particulars of the appointment may be obtained from the Secretary, Board of Control, Hobart House, Grosvenor-place, London, S.W.1.

No application can be considered unless received on the prescribed form not later than 7th January, 1939.

## Charing Cross Hospital.

Applications are invited for the post of HONORARY CLINICAL ASSISTANT in the X Ray and Electro-therapeutic Department. Honorarium £50 per annum.

Candidates should have by preference the qualification of D.M.R.E.

Applications, together with copies of three recent testimonials, should be sent to the undersigned not later than January 2nd, 1939.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, W.C.2.

## Guy's Hospital Dental School.

Applications are invited for the whole-time post of DENTAL RESEARCH FELLOW, the appointment to begin as soon after 1st January, 1939, as possible. Preference will be given to a biochemist who is prepared to undertake work on dental diseases. The appointment will be for two years in the first instance with the possibility of reappointment. The stipend will be at the rate of £400 per annum.

Applications, accompanied by the names of three persons to whom reference may be made, should be submitted not later than 31st December, 1938, to the Dean, Guy's Hospital Medical School, S.E.1, from whom further particulars regarding the appointment may be obtained.

## Hospital of St. John and St. Elizabeth,

60, Grove End-road, N.W.8.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male). The post is recognised for the degree of M.D. London University. The appointment will be for six months from February 1st, 1939. Salary at the rate of £100 per annum with full board.

Applications, together with copies of three testimonials, should reach the undersigned by December 31st.

Applicants will be required to attend a meeting of the Medical Committee at 8.30 P.M. on January 3rd, 1939, at the Hospital.

F. DUDLEY HOBBS, B.A., Secretary.

## Central London Ophthalmic Hospital,

Judd-street, London, W.C.1

Locum is required for the SENIOR HOUSE SURGEON for two months from February 1st. Further particulars may be obtained from the Secretary at the Hospital.

## Hospital for Consumption and Diseases
OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN for which there are two vacancies.

Applications, with copies of testimonials, must reach the undersigned not later than Monday, 9th January, 1939. Candidates must be Members (or have passed the qualifying examination for the Membership) of the Royal College of Physicians, London.

Applications should not be addressed to individual members of the Committee of Management.

F. G. ROUVRAY, Secretary.

Brompton, S.W.3, December, 1938.

## Poplar Hospital, East India Dock-road,
Poplar, E.14.

The Committee invites applications for the appointment of SECOND RESIDENT OFFICER (Male) at a salary at the rate of £175 per annum, all found.

Candidates must have held appointments as House Surgeon at a Hospital.

Applications must be accompanied by a statement of the candidate's qualifications and forwarded to the Secretary, with three recent testimonials, not later than Friday, December 23rd, 1938.

The appointment is for a period of six months.

## London Hospital, E.1.

There is a vacancy for the post of FIRST ASSISTANT to the OPHTHALMIC DEPARTMENT. Candidates must be fully qualified medically.

Applications should be made to the Secretary, from whom further particulars may be obtained, and should arrive not later than Saturday, January 14th, 1939.

H. L. MILSOM, Secretary.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

An OUT-PATIENT MEDICAL REGISTRAR (part-time and non-resident) is required as early as possible in January. Salary £150 per annum. The duties will include those of the former Out-patient Medical Registrar.

An OUT-PATIENT AURAL REGISTRAR (part-time) is required as early as possible in January. Salary £175 per annum.

These appointments are tenable in the first instance for one year, but may be held for a period of two years, subject to re-election.

Candidates must possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by NOON on Monday, the 2nd January, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 4th January, 1939.

Full instructions and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

December, 1938.

## London Chest Hospital,
Victoria Park, E.2.
(Bus, Tram and Rly. Cambridge Heath, L.N.E. Rly.)

REGISTRAR—Ear, Nose, and Throat Dept. (Male) (Part-Time).

Applications are invited for the above post.

The appointment will be for a period of one year.

Honorarium £50 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before 3rd January, 1939

THOMAS BROWN, Secretary.

## London Chest Hospital,
Victoria Park, E.2
(Bus, Tram and Rly. Cambridge Heath, L. & N.E. Rly.)

SURGICAL REGISTRAR (Male) (Part-time).

Applications are invited for the above post.

Four sessions a week, Tuesday and Friday mornings essential. Appointment is for one year. Honorarium £100 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before 3rd January, 1939.

THOMAS BROWN, Secretary.

## The Weir Hospital, Weir-road,
Balham, S.W.12.
(30 Beds.)

JUNIOR RESIDENT MEDICAL OFFICER required at the end of December (Male, unmarried). Candidates must be fully qualified and duly registered. Salary £150 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, to be sent to the Secretary, from whom further information may be obtained.

## University College Hospital.

Applications are invited for the whole-time post of ASSISTANT to the Department of Radiotherapy.

The salary will be at the rate of £500 per annum.

Applications accompanied by such evidence of fitness for the post as the candidates may desire to furnish should reach the Secretary, University College Hospital, Gower-street, W.C.1, not later than Monday, 2nd January, 1939.

## University College Hospital.

BILTON POLLARD FELLOWSHIP.

Applications are invited for the above Fellowship of an annual value of £650 commencing 1st February, 1939, the tenure of which is limited to the men students of University College Hospital who have held a resident appointment or its equivalent at the Hospital.

Candidates must hold the qualification of M.R.C.P. (Lond.) or F.R.C.S. (Eng.) and must declare their intention of engaging in the practice of medicine or surgery.

Forms of application can be obtained from the Secretary of University College Hospital, Gower-street, W.C.1, and must be returned not later than Monday, January 2nd, 1939.

## South London Hospital for Women.
Clapham-common, S.W.4.

Applications are invited from Medical Women for the under mentioned appointment.

SURGICAL REGISTRAR.

Full-time duty for a period of one year with eligibility for reappointment to a maximum of three years.

Honorarium of £200 per annum.

Candidates are requested to call on members of the Hon. Medical Staff by Friday, December 30th, by which date applications and copies of testimonials should reach the Secretary at the Hospital.

## Norman Gamble Research Fund of
THE ROYAL SOCIETY OF MEDICINE.

Applications from individuals (British subjects) for GRANTS in aid of Research in Otology should be made to the Secretary of the Royal Society of Medicine, 1, Wimpole-street, London, W.1, not later than February 28th, 1939.

Applicants should give full particulars of the work proposed.

## The Samaritan Free Hospital for
WOMEN, Marylebone-road, N.W.1.

Applications are invited for the post of HOUSE SURGEON for a period of six months, commencing January 15th next. Salary at the rate of £100 per annum, with board, lodging, and laundry. Previous experience as House Surgeon essential.

Applications, stating age, accompanied by copies only of testimonials, should be sent to the Secretary at the Hospital on or before Friday NOON, January 6th, 1939.

G. H. HAWKINS, Secretary.

## Metropolitan Hospital,
Kingsland-road, London, E.8.

APPOINTMENT OF SECOND AURAL SURGEON.

Applications are invited for the above post. Candidates must be Fellows of the Royal College of Surgeons, England.

Applications (24 copies) with recent testimonials, must be received by the 10th January, 1939, addressed to the undersigned, from whom further particulars may be obtained.

FRANK JENNINGS, House Governor and Secretary.

## London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5. Surgical experience desirable.

(*b*) ST. JAMES' HOSPITAL, Ouseley-road, Balham, S.W.12. (Two positions.) (i) Surgical duties. (ii) Obstetric and gynæcological duties.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, Westminster-bridge, S.E.1, returnable by 2nd January.

Canvassing disqualifies.

## London County Council.

Applications invited from registered Medical Practitioners of at least one year's standing, resident in the neighbourhood, for appointment as Temporary VISITING MEDICAL OFFICER (Part-time) at EARLSFIELD HOUSE, Children's Receiving Home, 1, Swaffield-road, Wandsworth, S.W.18. Salary £150.

Application forms obtainable (stamped addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, Westminster Bridge, S.E.1, returnable by 30th December. Canvassing disqualifies.

## The Elizabeth Garrett Anderson HOSPITAL, Euston-road, N.W.1.

Applications are invited from qualified Medical Women for the following posts :—

HOUSE PHYSICIAN, 1st, 2nd, and 3rd HOUSE SURGEONS, OBSTETRIC ASSISTANT.

The posts are for six months, commencing 1st February, 1939. Remuneration at the rate of £50 per annum, with board, residence, and laundry.

Further particulars of the posts may be obtained from the undersigned, to whom applications should be sent with copies of three testimonials, not later than Friday, 30th December, 1938.

JEAN R. MURRAY, Secretary.

## Connaught Hospital, E.17.

(118 Beds, with 4 Resident Medical Officers.)

SENIOR RESIDENT SURGICAL OFFICER (Male) required. Salary £200 per annum, with residence, board, and laundry. Appointment for six months from 9th January, 1939. Candidates must have their Primary Fellowship or be a Fellow of one of the Royal Colleges.

Applications, stating age, nationality, qualifications, and experience, accompanied by copies of not more than three recent testimonials, should be received on or before 31st December, 1938.

R. HALTON HARRISON, Secretary.

## Borough of Leyton.

DEPUTY MEDICAL OFFICER OF HEALTH AND DEPUTY SCHOOL MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners possessing a registered Diploma in Public Health or State Medicine for the appointment of Deputy Medical Officer of Health and Deputy School Medical Officer.

Age not to exceed forty-five years.

The salary attaching to the post will be £660 per annum, rising by four annual increments of £20 and one of £10, to a maximum of £750 per annum.

Preference will be given to candidates possessing previous experience in School Medical Inspection, Maternal and Child Welfare and in the Diagnosis and Treatment of Infectious Diseases.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, or in the event of the person appointed taking up his duties after the 31st March, 1939, to the provisions of the Local Government Superannuation Act, 1937 ; and to the conditions set out on the form of application.

Applications must be made on the prescribed forms which can be obtained by sending stamped, addressed foolscap envelope to the undersigned.

Applications, endorsed "Deputy Medical Officer of Health," must reach the undersigned as soon as possible, and not later than the first post on the 2nd January, 1939. Canvassing, directly or indirectly, will be a disqualification.

JNO. ATKINSON, Town Clerk.

Town Hall, Leyton, E.10, 9th December, 1938.

## The Infants Hospital, Vincent-square, Westminster.

The Committee of Management invite applications for the post of RESIDENT MEDICAL OFFICER.

Candidates must have held previous resident Hospital appointments for not less than six months, and must have had Pædiatric experience. The appointment is for one year from March 1st with eligibility for reappointment. Salary £300 per annum, with board, lodging, and laundry.

Candidates are expected to call upon, and send a copy of application and testimonials to, each member of the Honorary Medical and Surgical Staff.

Applications, with copies of testmonials, should be sent not later than January 30th to the undersigned, from whom copies of the rules may be obtained.

ARNOLD TUNSTALL.

## Watford and District Peace Memorial HOSPITAL.

(154 Beds.)

Applications are invited for the following post for a period of six months commencing 1st February, 1939 :—

HOUSE PHYSICIAN (Female).

Salary at the rate of £150 per annum, with board and laundry.

Applications, stating age, nationality, and qualifications, together with three testimonials, to be forwarded to the undersigned not later than 31st December, 1938.

T. H. FLETCHER, Secretary.

## Free Eye Hospital, Southampton.

Applications are invited for the post of ORTHOPTIC TEACHER as from 1st January, 1939. Whole-time appointment ; commencing salary £180. Must be unmarried. Facilities given for taking private patients on terms to be arranged.

Applications, giving experience and qualifications, to be sent to the undersigned.

E. T. KEMP, Secretary.

## Norfolk and Norwich Hospital, NORWICH.

(440 Beds.)

Applications are invited for the post of CASUALTY OFFICER.

Salary £120 per annum, with board, residence, and laundry.

Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age, nationality, &c., together with copies of testimonials, should reach the undersigned as soon as possible.

FRANK INCH, House Governor and Secretary.

16th December, 1938.

## Royal East Sussex Hospital, Hastings.

Applications are invited for the post of JUNIOR HOUSE SURGEON (Female) vacant 1st January, 1939. The appointment is for a period of six months.

Salary at the rate of £150 per annum with board-residence.

Candidates must be duly registered Medical Practitioners.

Applications, with copies of recent testimonials, to be addressed to the Secretary, by December 23rd.

WILFRID G. KEMSLEY.

## The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

RESIDENT ANÆSTHETIST.

Applications are invited for the post of Resident Anæsthetist. The appointment will be for six months, renewable, and the salary £200 per annum, with board and residence. Duties to commence 23rd January next.

The Hospital contains 300 Beds, at present being enlarged to 400 Beds, and is approved by the General Medical Council for part of the requisite attendance on Medical and Surgical Practice.

Applicants should provide evidence of their experience in modern anæsthetic methods ; applications should be sent to the undersigned, from whom further information required about the post may be obtained.

W. H. HARPER, House Governor.

Wolverhampton, 12th December, 1938.

## East Suffolk and Ipswich Hospital.

(350 Beds. 8 Residents.)

Wanted, 1st February, 1939, HOUSE SURGEON (Male—British) to a General Surgeon and Assistant General Surgeon. The Hospital is recognised by the Royal College of Surgeons in respect of this post. Salary at the rate of £144 per annum, with board, apartments, and laundry.

Applications, stating age, qualifications, and experience, to be sent to the undersigned, together with copies of three recent testimonials.

ARTHUR GRIFFITHS, Secretary.

The Hospital, Ipswich, 17th December, 1938.

## City of Birmingham.

DUDLEY-ROAD HOSPITAL. (926 Beds.)

Applications are invited from fully qualified Medical Practitioners for whole-time appointment as JUNIOR MEDICAL OFFICER (Male) at the Dudley-road Hospital, Birmingham. The appointment will be for a period of six months, but may be extended for a further period of not exceeding six months. Salary at the rate of £200 per annum and full residential emoluments.

Further particulars may be obtained from the Medical Superintendent at Dudley-road Hospital, to whom applications, stating age, experience, and qualifications with copies of recent testimonials, should be forwarded not later than Thursday, December 29th, 1938.

## Ancoats Hospital, Manchester, 4.

ASSISTANT PATHOLOGIST, Lady or Gentleman, whole-time appointment—no private work allowed. Salary £400 per annum ; live out. Luncheon and tea provided. The appointment is for twelve months and is renewable.

Applications for the above post, stating age and particulars of qualifications and experience, to be forwarded to the undersigned on, or before 4th January, 1939, together with copies of three recent testimonials.

By Order of the Board,

HERBERT J. DAFFORNE, General Superintendent and Secretary.

## Coventry and Warwickshire Hospital, COVENTRY.

Main Hospital, 307 Beds.
Convalescent Hospital, 40 Beds.

Applications are invited for the posts of OPHTHALMIC REGISTRAR and OPHTHALMIC CLINICAL ASSISTANT.

Candidates must have had previous Ophthalmic experience.

Applications to be made to the undersigned to be received not later than the first post on Saturday, December 31st, 1938.

S. CECIL HILL, House Governor and Secretary.

December 12th, 1938.

## Harrogate Royal Bath Hospital.

(A National Hospital for Rheumatic and Allied Diseases.)
(150 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) to commence duties beginning of February, 1939.

Salary £200 per annum, with board, residence and laundry.

Exceptional facilities for research or preparation of thesis.

Applications, stating qualifications, age, &c., with copies of recent testimonials, to be forwarded to the undersigned.

E. P. L. DIXON, M.A., Secretary.

## Royal United Hospital, Bath.

HOUSE PHYSICIAN required for 1st January, 1939. Resident Staff of two House Physicians and three House Surgeons.

Duties include some Casualty. Salary £150 per annum, board, residence and laundry.

The appointment is for six months, and candidates must be Male, unmarried, and of British nationality.

Applications, with copies of three testimonials, to be addressed to the undersigned by December 27th.

J. LAWRENCE MEARS, Secretary-Superintendent.

13th December, 1938.

## Christie Hospital and Holt Radium

INSTITUTE, WITHINGTON, MANCHESTER, 20.

Applications are invited for the post of RESIDENT SURGICAL OFFICER at the above Hospital to commence duties early in January.

The appointment is for a period of six months, but will be renewable. Previous resident appointments essential.

Salary at the rate of £150 per annum, plus residence, board and laundry.

Applications, with full details of previous experience, together with copies of testimonials, should be sent to the undersigned immediately.

PERCY N. GLASS, Superintendent and Secretary.

## County Borough of Middlesbrough.

ST. LUKE'S MENTAL HOSPITAL, GROVE HILL, MIDDLESBROUGH.

The Committee of Visitors invite applications for the appointment of ASSISTANT MEDICAL OFFICER AND DEPUTY MEDICAL SUPERINTENDENT (Male) for the abovementioned Hospital.

Candidates must be fully qualified and duly registered, and preference will be given to one who has held a resident appointment in a General Hospital.

The age of applicants unless with previous Mental Hospital service should not exceed thirty-five years.

Salary £500 per annum (no emoluments) rising by four annual increments of £25 to a maximum of £600, plus an extra payment of £50 per annum to holders of, or who may later obtain, the D.P.M. Unfurnished house on the Estate provided for which a sum of £50 per annum will be deducted from the salary to cover rent, rates, and water.

The appointment is whole time and subject to the provisions of the Asylums Officers' Superannuation Act, 1909. The appointment will be terminable by two months' notice on either side. The successful candidate will be required to undergo a medical examination.

Canvassing will disqualify.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned not later than the 4th January, 1939, endorsed "Assistant Medical Officer and Deputy Medical Superintendent."

PRESTON KITCHEN,
Town Clerk and Clerk to the Committee of Visitors.

Town Clerk's Office, Middlesbrough, 7th December, 1938.

## City of Liverpool.

SENIOR RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment at the ALDER HEY CHILDREN'S HOSPITAL, West Derby, Liverpool (940 Beds), for a period of twelve months in the first instance.

Candidates must be single, fully qualified and registered, and should, preferably, have had considerable experience in diseases of children and possess one of the higher qualifications in medicine.

Salary at the rate of £350 per annum, rising by annual increments of £25 to £450 per annum, together with the usual residential allowances. All fees received in connexion with the appointment to be handed over to the City Council.

The position offers exceptional opportunity for anyone wishing to specialise in diseases of children.

The person appointed will be required to work under the direction of the Medical Superintendent.

The appointment will be made in accordance with the Standing Orders of the City Council and will be determinable by three months' notice on either side.

Canvassing, either directly or indirectly, will be deemed a disqualification.

Applications upon forms obtainable from the Medical Officer of Health, Hospitals Department, Liverpool, 2, to be endorsed "Senior R.A.M.O." and returned to the undersigned so as to be received not later than Friday, 30th December, 1938.

W. H. BAINES, Town Clerk.

Municipal Buildings, Liverpool, 2, December, 1938.

## County Borough of Blackburn.

ASSISTANT SCHOOL MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH (Male).

Applications are invited from registered Medical Practitioners for the post of Assistant School Medical Officer and Assistant Medical Officer of Health (Male) to act under the supervision of the Medical Officer of Health, who is also the School Medical Officer.

The person appointed must devote the whole of his time to the service of the Corporation.

The duties of the office are general, although they will consist largely of work in the School Medical Department. Preference will be given to candidates holding a Diploma in Public Health, who have held resident appointments in General and Infectious Diseases Hospitals.

The salary will be at the rate of £600 per annum, increasing by annual increments of £25 to a maximum of £700 per annum.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Forms of application and further particulars of the duties and conditions of the appointment may be obtained from the Medical Officer of Health, Victoria-street, Blackburn.

Completed forms, together with copies of three recent testimonials, must reach me by Friday, the 6th January, 1939, and should be endorsed on the envelope "Assistant School Medical Officer."

Canvassing, either directly or indirectly will be a disqualification.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn.

## West Riding of Yorkshire Mental

HOSPITALS BOARD.

WADSLEY MENTAL HOSPITAL.

APPOINTMENT OF AN ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of an Assistant Medical Officer in the Board's service at the above Mental Hospital, at a commencing salary of £350 per annum, rising by annual increments of £25 to a maximum of £450, together with emoluments (board, apartments and laundry), valued at £120 per annum. The Board will allow an extra £50 per annum to the successful candidate who (whilst on this scale) holds or obtains the Diploma in Psychological Medicine, for which this Hospital affords special study facilities.

It will be an advantage if candidates have had at least one year's experience in General Medicine after qualification.

The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909, Class 1.

Applications, with copies of not more than two recent testimonials, stating age and full particulars, to reach the undersigned not later than the 9th January, 1939.

There is no printed form of application.

G. L. BANNER, Clerk of the Board.

Board Offices, Victoria Chambers, Wood-street, Wakefield.
P.O. Box 28.

## University of Durham.

KING'S COLLEGE, NEWCASTLE-UPON-TYNE.

ASSISTANT BACTERIOLOGIST IN PUBLIC HEALTH LABORATORY.

Applications are invited from qualified medical Men or Women for the above post. Post-graduate experience in the routine methods of a bacteriological laboratory is desirable. The appointment is a temporary one in the first place, but a permanent appointment will shortly be made. The person will be required to take up duty at the earliest possible date. Salary at the rate of £400 per annum.

Applications should be lodged as soon as possible with the undersigned.

W. G. B. OLIVER, Registrar.

## City of Leeds.

PUBLIC HEALTH DEPARTMENT.

ST. MARY'S INFIRMARY,
ARMLEY, LEEDS, 12.

RESIDENT MEDICAL OFFICER.

A Resident Medical Officer is required for St. Mary's Infirmary, Leeds (250 Beds). The hospital is a general hospital for chronic and semi-chronic cases with a section of 25 beds devoted to Maternity.

The appointment is for twelve months and the salary is £250 per annum inclusive, together with full residential emoluments. Any fees received must be paid into the city funds.

Candidates must have had experience in midwifery subsequent to qualifying. The duties of the officer include lecturing to the Nursing Staff and instruction of Pupil Midwives.

Applications, stating age, qualifications, &c., together with copies of three recent testimonials, to be forwarded to the undersigned not later than 10 A.M., on Saturday, 24th December, 1938.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

Public Health Department, 12, Market-buildings,
Vicar-lane, Leeds, 1.

## County Mental Hospital, Prestwich,
Nr. MANCHESTER.

Applications are invited for the whole-time appointment of SENIOR ASSISTANT MEDICAL OFFICER at the above Mental Hospital. The salary is £700 per annum. An additional £50 per annum will be paid for the possession of a diploma in Psychological Medicine.

The selected candidate must be single, and will be required to live in the Hospital and will be provided with board, lodgings, &c., for which a charge of £150 per annum is made.

The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, and the successful candidate will be required to pass a medical examination.

Applications, giving full particulars, with copies of testimonials, should be forwarded so as to reach the Medical Superintendent on or before the 4th January, 1939, address as above.

## County Mental Hospital, Prestwich,
Near MANCHESTER.

Locum Tenens (with a possibility of permanency) Male MEDICAL OFFICER, age not exceeding thirty-five, required at the above Hospital which is a Training School.

Salary £7 7s. per week, with board, lodging, and laundry. Copy testimonials only must be sent.

Candidates must be unmarried and registered under the Medical Act. Appointment terminable by one week's notice on either side.

Apply as soon as possible stating age, hospital and other experience, qualifications, and full particulars to the Medical Superintendent as above.

## Leicester Royal Infirmary.

PART-TIME VENEREAL DISEASES OFFICER (Female).

Applications are invited for the position of Senior Medical Officer (Woman) in charge of Women's V.D. Clinics under general administrative control of the Director of Venereal Diseases Service. Salary £350 per annum.

The appointment is for a part-time Medical Officer, who will be allowed to engage in private, but not panel, practice. It is understood that an additional part-time appointment valued at £150 per annum will be offered to the successful candidate.

Applicants must be qualified in accordance with the new regulations of the Ministry of Health.

Full details on application to the House Governor and Secretary.

30th November, 1938.

## Rhondda Urban District Council.

WOMAN ASSISTANT MEDICAL OFFICER.

Applications are invited from unmarried or widowed women Medical Practitioners, not exceeding forty-five years of age, for appointment as Assistant Medical Officer under the direction and supervision of the Council's Medical Officer of Health and School Medical Officer, at a salary of £500, rising by annual increments of £25 to £700 a year, the first annual increment being payable on April 1st following the completion of six calendar months' service under the Council; travelling expenses necessarily incurred in the performance of the duties will also be allowed. Candidates must have had not less than three years' professional experience subsequent to registration, and must be experienced in the diseases of children and in maternity work; special experience in orthopædic work and the possession of a Diploma in Public Health will be considered desirable additional qualifications.

The appointment, which is designated under the Local Government and Other Officers' Superannuation Act, 1922, will be subject to the passing of a medical examination and will be terminable by two calendar months' notice on either side. The Officer appointed will be required to reside within the Rhondda Urban District and will not be allowed to engage in private practice.

Applications are to be made on forms obtainable from the Medical Officer of Health, Tydfil House, Llewelyn-street, Pentre, Rhondda, by whom they must be received, endorsed "Assistant Medical Officer," and accompanied by copies of three recent testimonials, not later than the first post on Friday, the 23rd December, 1938.

D. J. JONES, Clerk of the Council.

The Council Offices, Pentre, Rhondda, 5th December, 1938.

## Addenbrooke's Hospital, Cambridge.

Applications are invited for the following posts:—

(a) HOUSE SURGEON, vacant on February 1st, 1939.
(b) HOUSE PHYSICIAN, vacant on February 1st, 1939.

Each appointment is tenable for a period of six months, but is terminable at an earlier date by one month's written notice on either side.

The salary of each officer will be at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, December 21st, 1938.

J. A. BEARDSALL, Secretary-Superintendent.

## County Borough of Oldham.

MUNICIPAL HOSPITAL.

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for the post of Resident Assistant Medical Officer. Applicants must not be over forty-five years of age.

Salary £200 per annum, with board, residence, and laundry.

Candidates should be unmarried.

The appointment will, in the first instance, be for a period of six months. The successful applicant, however, will be eligible for reappointment for a further period of six months.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

The hospital comprises 375 beds, with facilities for gaining experience in medicine, surgery, midwifery, and diseases of children.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Oldham, and should be returned, endorsed "Resident Assistant Medical Officer," as soon as possible, but not later than 9 A.M. on Wednesday, 28th December, 1938.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 5th December, 1938.

## Royal Berkshire Hospital, Reading.
(338 Beds.)

Applications are invited for the following resident appointments which fall vacant on February 1st, 1939:—

One HOUSE SURGEON to the SPECIAL DEPARTMENTS (Eye, Ear, Nose, and Throat) (Male).

One CASUALTY OFFICER (Male).

Appointments are for six months and candidates must be fully qualified and registered.

Remuneration at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and experience, with copies of testimonials, to be sent to the undersigned on or before January 7th, 1939.

H. E. RYAN, Secretary and House Governor.

## Borough of Hove.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners under the age of 40 for the above whole-time appointment. The duties will be of a general nature but special experience is necessary in Maternity and Child Welfare and Infectious Diseases, and applicants should possess the Diploma of Public Health.

The salary will be £500 per annum, rising by annual increments of £25 to £700 per annum, together with a car allowance of £50 per annum. The successful candidate will be required to pass a medical examination and to contribute to the Superannuation Fund.

Applications on the prescribed form to be obtained from the undersigned, together with copies of three recent testimonials, must be received not later than Friday, 30th December, 1938.

W. JERMYN HARRISON, Town Clerk.

Town Hall, Hove, December, 1938.

## Hampshire County Council.

ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited for the post of Assistant County Medical Officer. Possession of a Diploma or Degree in Public Health is essential, and previous experience in the various branches of public health, especially tuberculosis, and school medical service work is desirable.

Salary £600 a year rising, on approved service, by increments to £750 (subject to deductions under the Local Government Superannuation Act, 1937) in addition to travelling expenses.

Applications, with copies of not more than three recent testimonials, upon a form which, with the conditions of appointment, may be obtained from the County Medical Officer, The Castle, Winchester, should be sent to him as soon as possible and not later than the 30th December, 1938. Canvassing is prohibited.

The successful candidate will not be expected to take up his duties before the 1st April, 1939.

F. V. BARBER, Clerk of the County Council.

The Castle, Winchester, 5th December, 1938.

## West Kent General Hospital
(Incorporated),
MAIDSTONE. (135 Beds.)

Applications are invited for the post of HOUSE SURGEON, who must be a Male of British nationality and unmarried.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned not later than the 23rd December, 1938. The successful candidate will be required to take up residence on the 1st January, 1939.

EDWARD J. GREGG, House Governor and Secretary.

## Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

FARNHAM COUNTY HOSPITAL (197 Beds).

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of Assistant Medical Officer at the Farnham County Hospital, Hale-road, Farnham.

Candidates must have held resident hospital appointments and should preferably possess a higher qualification.

The tenure of the appointment is limited to a period of 5 years, but the appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922. The cash salary is at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the County Medical Officer, County Hall, Kingston-on-Thames, so as to be received not later than the 21st December, 1938.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 9th December, 1938.

## Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

EPSOM COUNTY HOSPITAL. (330 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER (Male).

Applications are invited for the appointment, which will be vacant on 1st February, 1939, of Resident Assistant Medical Officer at the Epsom County Hospital.

Applicants must have held a previous resident hospital appointment and should preferably have had experience in maternity work and minor surgery.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Epsom County Hospital, Dorking-road, Epsom, so as to be received not later than 31st December, 1938.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 16th December, 1938.

## The Royal Infirmary, Sheffield.

(476 Beds.)

RESIDENT SURGICAL OFFICER.

Applications are invited for the above post which will become vacant on 1st January, 1939. Salary £200 per annum, with board and residence. The appointment is for a period of one year.

The duties include that of First Assistant to one of the Surgical Units. Candidates should have held previous House appointments and must be F.R.C.S. (Eng. or Edin.).

Applications, together with copies of three recent testimonials, to be sent to the undersigned on or before 24th December, 1938.

H. KINGSLEY PEARCE, General Superintendent and Secretary.

10th December, 1938.

## The Royal Infirmary, Sheffield.

The Board of Management invite applications for the post of OPHTHALMIC HOUSE SURGEON.

The salary attached to the post is £120 per annum, with board and residence.

The successful applicant will be expected to take up his duties on 1st January, 1939.

The Ophthalmic Department contains 69 Beds and an Out-Patient Department which is open daily.

Applications with copies of testimonials to be sent forthwith to the General Superintendent and Secretary.

5th December, 1938.

## Dundee Mental Hospital, Westgreen.

Applications are invited for the post of JUNIOR ASSISTANT MEDICAL OFFICER (Male) to the above Hospital. Salary £300 per annum, with board, lodging, and laundry, subject to deductions under the Asylum Officers' Superannuation Act.

Applications, stating age and experience, with copies of three recent testimonials, to be forwarded to the Medical Superintendent.

## Manchester Hospital for Consumption

AND DISEASES OF THE THROAT AND CHEST.

Wanted, an ASSISTANT MEDICAL OFFICER (Male) for the CROSSLEY SANATORIUM, DELAMERE FOREST, CHESHIRE (113 Beds). Salary £200 per annum, with board, apartments, and laundry. Candidates must be registered. The appointment offers an opportunity for gaining experience in modern methods of treating Pulmonary Tuberculosis.

Applications, stating age, with copies of testimonials, to be sent not later than December 24th to W. Hunt, Secretary, 45, Hardman-street, Manchester, 3.

## County Borough of Brighton.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

An advertisement will appear in the next issue of this paper giving details of the appointment.

Application forms will be available on December 28th.

J. G. DREW, Town Clerk.

Town Hall, Brighton, 13th December, 1938.

## County Borough of Brighton.

SANATORIUM AND INFECTIOUS DISEASE HOSPITAL.

Applications are invited for the post of Male JUNIOR RESIDENT MEDICAL OFFICER.

Salary £250 per annum, with board and lodging.

The appointment is for a period of six months.

The post is designated under the local Government and Other Officers Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination before being appointed to the position.

Particulars and form of application can be had from the undersigned.

Applications must be delivered at my office before 10 A.M. on Tuesday, January 3rd, 1939.

DUNCAN FORBES, Medical Officer of Health.

Royal York-buildings, Brighton, 1, 12th December, 1938.

## The Radcliffe Infirmary, Oxford.

Applications are invited for the post of ASSISTANT PHYSICIAN to the Department of Physical Medicine. The salary will be at the rate of £400 per annum, and the Assistant Physician will have the right of charging fees to paying patients in the Department, on conditions which will be arranged with the Committee of Management. The appointment will be for a period of one year in the first instance.

Twenty copies of applications and testimonials should be sent to the undersigned not later than Monday, January 23rd, 1939.

A. G. E. SANCTUARY, Administrator.

December, 1938.

## Preston Royal Infirmary.

The Board of Management invite applications from unmarried gentlemen, doubly qualified and registered, for the post of HOUSE SURGEON vacant on the 1st February, 1939. Duties under Consulting Surgeon; six months' appointment. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, and experience, together with copy testimonials, to be forwarded to Mr. JOHN GIBSON, Superintendent, Royal Infirmary, Preston.

N.B.—This appointment is recognised as approved experience in connexion with the F.R.C.S. (Eng.) examination.

## City of Plymouth.

CITY GENERAL HOSPITAL. (570 Beds.)

Applications are invited from duly qualified and registered Medical Practitioners for the post of

JUNIOR ASSISTANT MEDICAL OFFICER.

Salary at the rate of £250 per annum, with full residential. All fees received by the officer must be refunded to the Council.

The appointment will be for the period of six months in the first instance, and renewable for a further period of six months, and will be terminable by one month's notice on either side.

The duties of the post will be largely on the surgical side of the Hospital.

Further details may be obtained from the Medical Superintendent.

Forms of application may be obtained from the undersigned, and should be forwarded, together with copies of not more than three recent testimonials, not later than 29th December.

T. PEIRSON,
Medical Officer of Health, Town Hall,
Stonehouse, Plymouth.

## Swansea General and Eye Hospital.

(336 Beds.)

HOUSE SURGEON wanted. Gentleman, single. Salary £150 per annum, with board, residence, and laundry. Appointment for six months. Duties to commence 1st January, 1939.

Applications, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials, to be forwarded to the undersigned.

O. C. HOWELLS, Secretary-Superintendent.

## Rotherham General Hospital.

HONORARY OPHTHALMIC SURGEON.

The Hospital Committee invite applications for the post of Honorary Ophthalmic Surgeon at the above Institution.

Prompt replies to this advertisement are desirable and full particulars can be obtained from the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham.

## The Chester Royal Infirmary.
(225 Beds.)

Applications are invited for the appointment of an additional (Fourth) HONORARY ANÆSTHETIST.

Applications, stating age and qualifications, and with copies of not more than three recent testimonials, should be delivered, addressed to the Chairman, Council of Management, Royal Infirmary, Chester, on or before Saturday, 31st December, 1938.

Canvassing is prohibited.

By Order of the Council of Management.
J. ROWSE MITCHELL, Secretary.

6th December, 1938.

## The Lawn, Lincoln.

ASSISTANT MEDICAL OFFICER required.

Medical Woman, with Mental Hospital experience or working for D.P.M. preferred.

Salary £300 per annum, with emoluments. Apply, Medical Superintendent, The Lawn, Lincoln.

## Huddersfield Royal Infirmary.
(321 Beds.)

Male HOUSE SURGEON required to commence duty on 5th January, 1939.

Salary £150 per annum, with board, residence and laundry.

Appointment for six months, subject to renewal at the discretion of the Board of Management.

The Hospital is officially recognised for the Surgical practice required of non-members before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

## Essex County Council.

JUNIOR RESIDENT MEDICAL OFFICER.

The County Council of the Administrative County of Essex invite applications for the appointment of a Junior Resident Medical Officer at the Oldchurch County Hospital, Romford.

The appointment is for a period of one year and the salary will be at the rate of £250 per annum, together, with the usual indoor emoluments valued at £160 per annum. The successful candidate will be required to pass a medical examination, and will be subject to the Council's sick pay rules and regulations, a copy of which will be forwarded on application.

Applications on the prescribed form obtainable from the undersigned should be addressed to me and delivered at the County Hall, Chelmsford, not later than 10 A.M. on Saturday, 31st December, 1938.

E. S. HOLCROFT, Clerk of the County Council.

County Hall, Chelmsford, 13th December, 1938.

## Worcester Royal Infirmary.

Applications are invited for the post of
HOUSE PHYSICIAN

Salary at the rate of £150 per annum, including board, residence, and laundry.

Applications, stating full particulars as to age, whether married or single, qualifications, &c., and accompanied by copies of three recent testimonials, should be sent to the undersigned by 21st December, 1938.

H. J. CLOUT, Secretary.

## The Kidderminster and District General
HOSPITAL. (145 Beds.)

SENIOR HOUSE SURGEON (Male) required. Salary £150 per annum, with residence, board, and laundry.

JUNIOR HOUSE SURGEON (Male) required. Salary £100 per annum, with residence, board, and laundry.

Applications, together with not more than three testimonials, should be forwarded immediately to the undersigned.

F. W. BARNETT, House Governor and Secretary.

## The Royal Army Medical Corps
ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

## Typewriting.—Specialists in Typing
Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

## Midlands.—Residential neighbourhood.
Old-established unopposed PRACTICE. £750–£800 per annum, including appointments £100. Small panel. Good scope for all-round increase. Quick sale desired owing to death. Roomy freehold house, garage, &c. Fine situation, would sell or consider renting. Excellent educational and sporting facilities.—Address, No. 539, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

## Part-Time Work wanted by Secretary
(Woman). Six years experience with Harley-street Physician. Trained V.A.D.—Address, No. 537, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

## London.—Cora Hotel.
Upper Woburn-place, near B.M.A. Headquarters Accommodates 235 visitors. Modern comforts.

Excellent table. A.A. and R.A.C. recommended.

Room, bath, and table d'hôte breakfast, 8s. 6d.

## Resident Patients.—Doctors desiring
accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1.

## Sunny Residential Flat, Harley-street
quarter, to let for one year. Two bedrooms, first-class amenities; lifts, porters, &c. Rent £300.—Address, No. 538, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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(H. C. Rowe, F.S.I.),

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## Harley Street and District.—A number
of excellent CONSULTING ROOMS are available for full and part-time use at moderate rents. Particulars on application.—ELGOOD & Co., 10, Henrietta-place, Cavendish-square, W.1. Lang. 2601.

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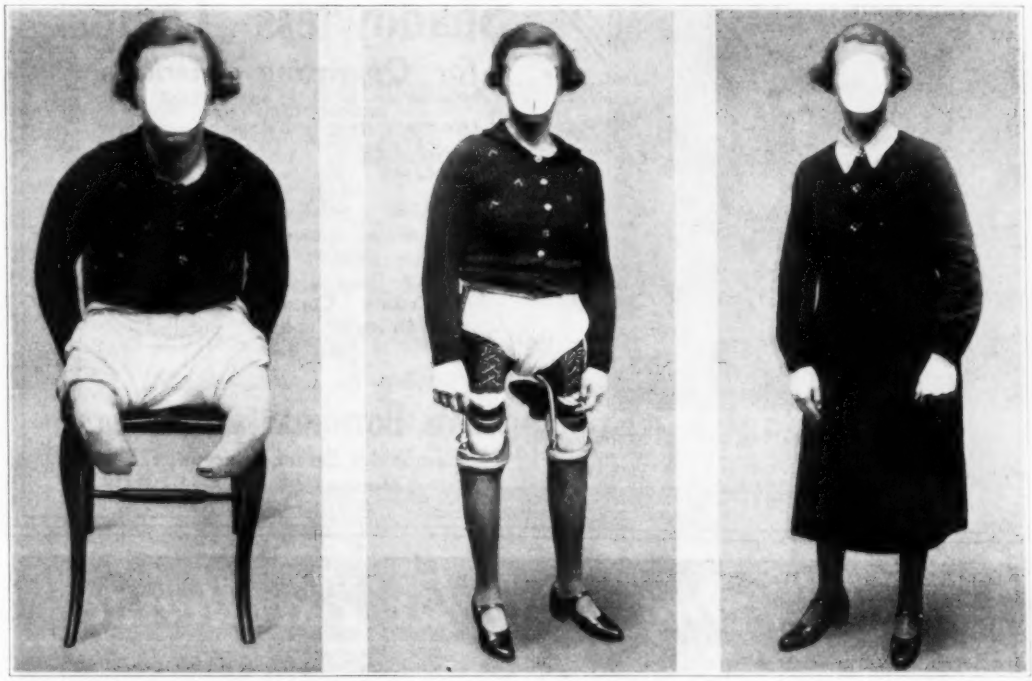

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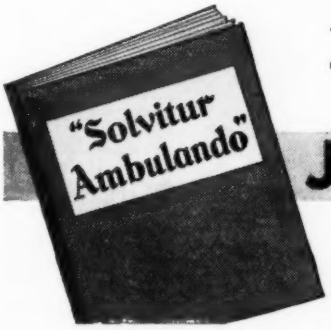


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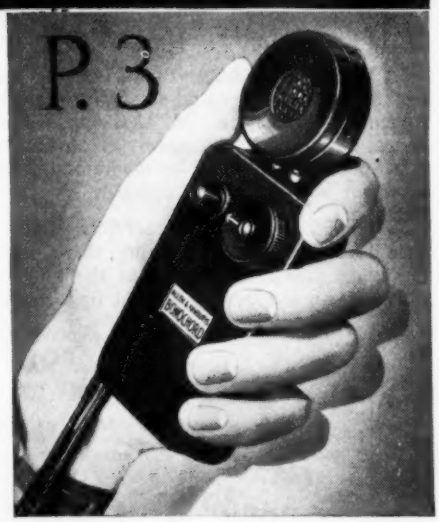

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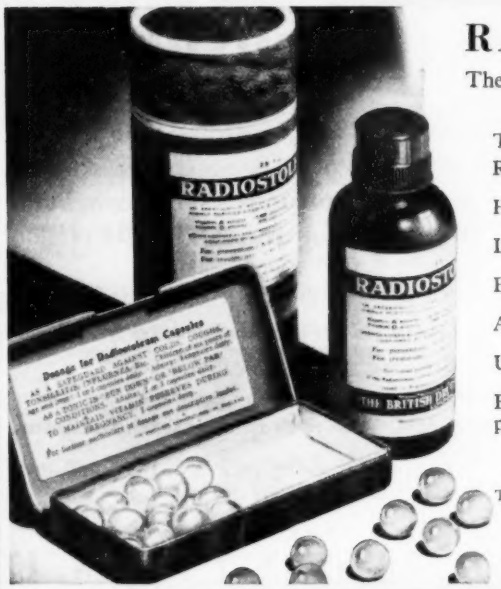


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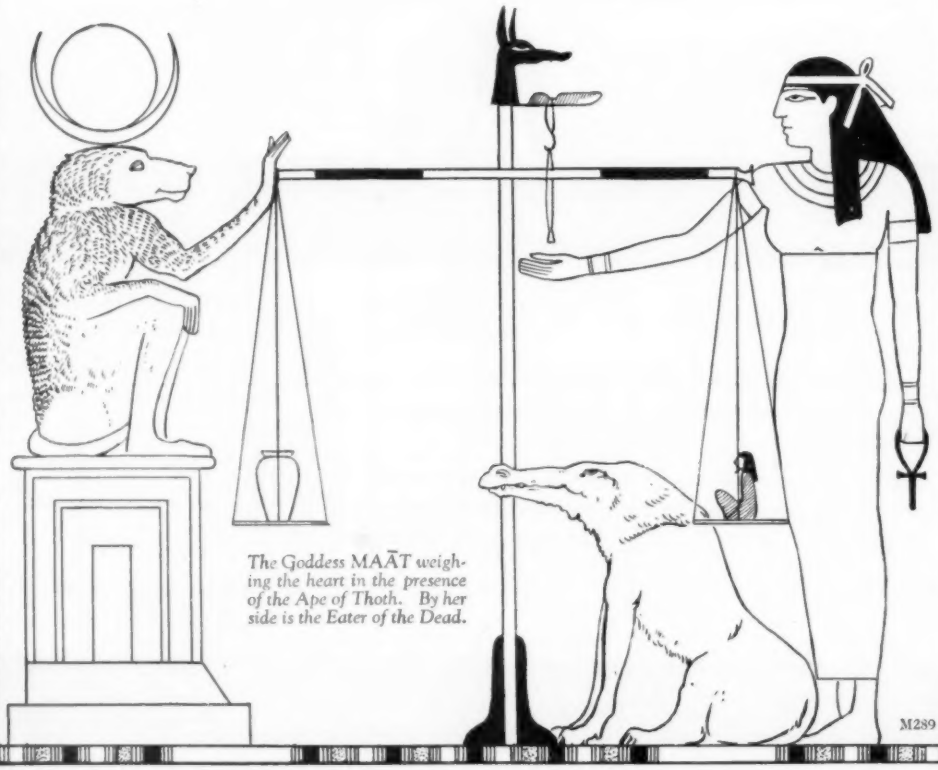


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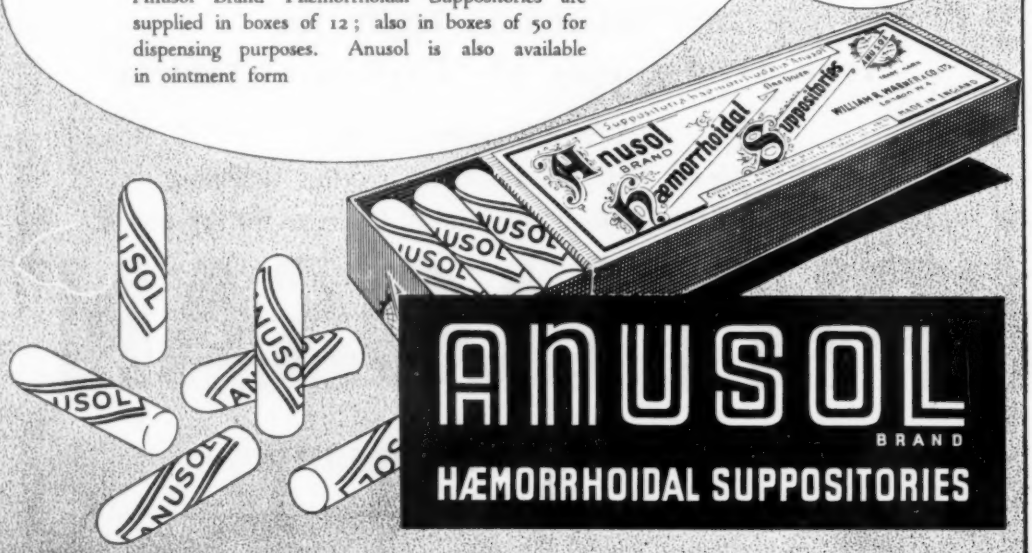


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Eley, R. C., *N.E. Journ. Med.*, Aug., 1935, 213, 195.

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*THE LANCET, October 29, 1938. Pages 983-987*

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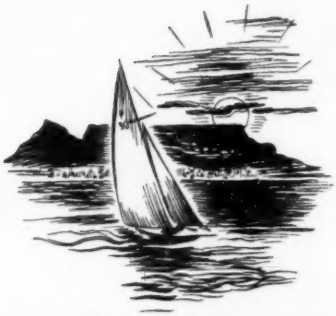

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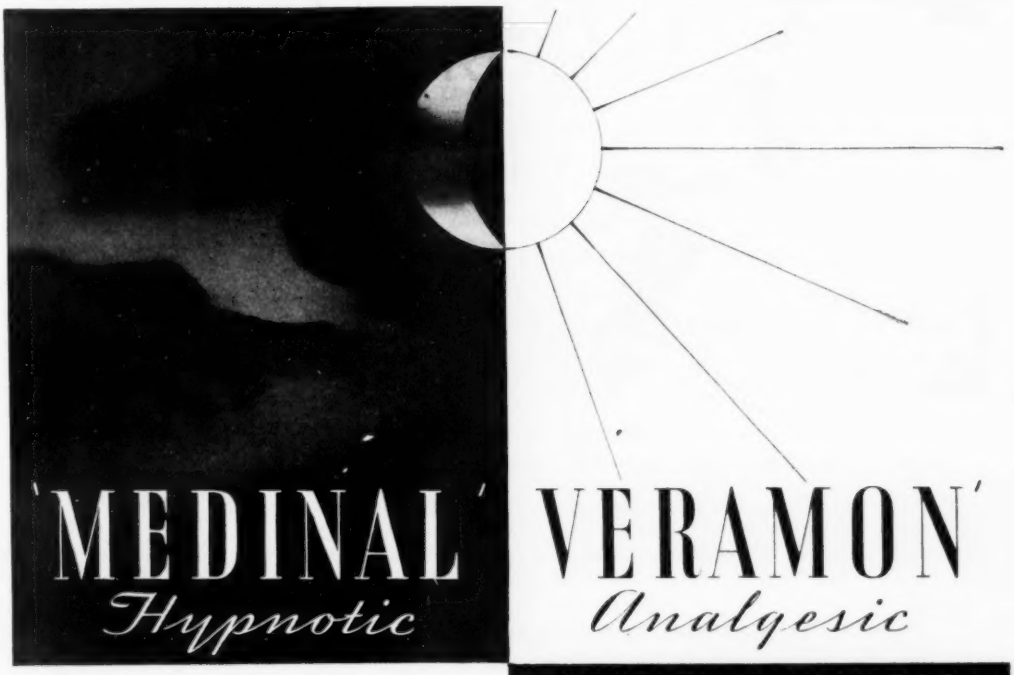


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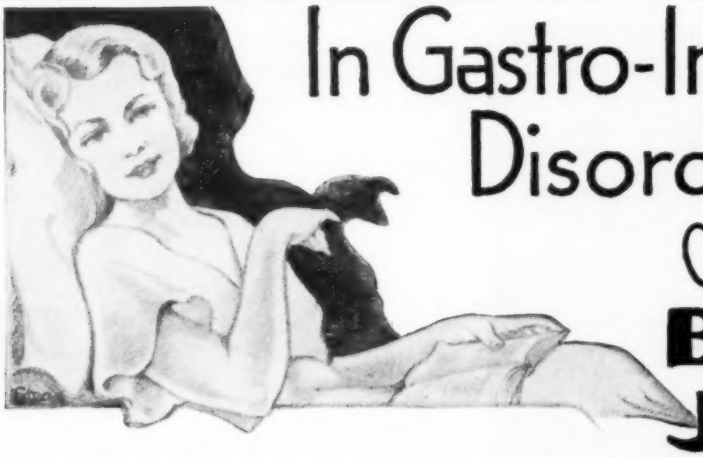

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[*See also pp. 6 & 8.*]

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A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

Telephone: No. 6207 Gloucester.

# PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

# NERVOUS & MENTAL AFFECTIONS

*Ladies only received*

# The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

## THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

President: The Right Hon. the LORD SAYE AND SELE.

This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

## Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. MCCLINTOCK, Proprietor and Resident Medical Superintendent.

## CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

## CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

## RUSSELLS

Hemel Hempstead Road,

WATFORD

Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

## SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

**For Mental Cases with or without Certificates.**

*Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).*

For forms of admission &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

## FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

*Apply:* Dr. MADELINE R. LOCKWOOD,

*phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

## BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

*For further particulars apply—*

Dr. ERNEST ROLLINS, Resident Physician.

*Tel.:* Amherst 1642.

## Smedley's Great Britain's Greatest Hydro Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

*Resident Physicians:* G. C. R. HARRINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*

*'Phone:* Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

## THE CLINIC

**20 Devonshire Place**

**London, W.1**

***Tel.: Welbeck 4444 (20 lines)***

**A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES**

Fees 10 gns. to 18 gns. per week (Average—14 gns.). 8 Operating Theatres. 150 State Registered Nurses. 2 Resident Medical Officers (for emergencies).

Patients only received under the supervision of their own Medical Practitioner.

Drugs and Dressings free (other than Proprietary Articles). Illustrated Brochure on application to Secretary.

## RHEUMA SPA, KINMEL HALL,

**ABERGELE, NORTH WALES**

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

*IDEAL WINTER QUARTERS—REDUCED RATES*

## Charing Cross Hospital.

Applications are invited for the post of HONORARY CLINICAL ASSISTANT in the X Ray and Electro-therapeutic Department. Honorarium £50 per annum.

Candidates should have by preference the qualification of D.M.R.E.

Applications, together with copies of three recent testimonials, should be sent to the undersigned not later than January 2nd, 1939.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, W.C.2.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

## The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

An OUT-PATIENT MEDICAL REGISTRAR (part-time and non-resident) is required as early as possible in January. Salary £150 per annum.

An OUT-PATIENT AURAL REGISTRAR (part-time) is required as early as possible in January. Salary £175 per annum.

These appointments are tenable in the first instance for one year, but may be held for a period of two years, subject to re-election.

Candidates must possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by NOON on Monday, the 2nd January, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 4th January, 1939.

Full instructions and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

December, 1938.

## London Chest Hospital,
Victoria Park, E.2.
(Bus, Tram and Rly. Cambridge Heath, L.N.E. Rly.)

REGISTRAR—Ear, Nose, and Throat Dept. (Male) (Part-Time).

Applications are invited for the above post.

The appointment will be for a period of one year.

Honorarium £50 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before 3rd January, 1939.

THOMAS BROWN, Secretary.

## London Chest Hospital,
Victoria Park, E.2
(Bus, Tram and Rly. Cambridge Heath, L. & N.E. Rly.)

SURGICAL REGISTRAR (Male) (Part-time).

Applications are invited for the above post.

Four sessions a week, Tuesday and Friday mornings essential. Appointment is for one year. Honorarium £100 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before 3rd January, 1939.

THOMAS BROWN, Secretary.

## Hospital of St. John and St. Elizabeth,
60, Grove End-road, N.W.8.

Applications are invited for the post of RESIDENT HOUSE PHYSICIAN (Male). The post is recognised for the degree of M.D. London University. The appointment will be for six months from February 1st, 1939. Salary at the rate of £100 per annum with full board.

Applications, together with copies of three testimonials, should reach the undersigned by December 31st.

Applicants will be required to attend a meeting of the Medical Committee at 8.30 P.M. on January 3rd, 1939, at the Hospital.

F. DUDLEY HOBBS, B.A., Secretary.

## London County Council.

Applications invited from Medical Practitioners of at least one year's standing to undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5. Surgical experience desirable.

(*b*) ST. JAMES' HOSPITAL, Ouseley-road, Balham, S.W.12. (Two positions.) (i) Surgical duties. (ii) Obstetric and gynæcological duties.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division, 2, County Hall, Westminster-bridge, S.E.1, returnable by 2nd January.

Canvassing disqualifies.

## The Elizabeth Garrett Anderson
HOSPITAL, Euston-road, N.W.1.

Applications are invited from qualified Medical Women for the following posts:—

HOUSE PHYSICIAN, 1st, 2nd, and 3rd HOUSE SURGEONS, OBSTETRIC ASSISTANT.

The posts are for six months, commencing 1st February, 1939. Remuneration at the rate of £50 per annum, with board, residence, and laundry.

Further particulars of the posts may be obtained from the undersigned, to whom applications should be sent with copies of three testimonials, not later than Friday, 30th December, 1938.

JEAN R. MURRAY, Secretary.

## Metropolitan Hospital,
Kingsland-road, London, E.8.

APPOINTMENT OF SECOND AURAL SURGEON.

Applications are invited for the above post. Candidates must be Fellows of the Royal College of Surgeons, England.

Applications (24 copies) with recent testimonials, must be received by the 10th January, 1939, addressed to the undersigned, from whom further particulars may be obtained.

FRANK JENNINGS, House Governor and Secretary.

## Connaught Hospital, E.17.
(118 Beds, with 4 Resident Medical Officers.)

SENIOR RESIDENT SURGICAL OFFICER (Male) required. Salary £200 per annum, with residence, board, and laundry. Appointment for six months from 9th January, 1939. Candidates must have their Primary Fellowship or be a Fellow of one of the Royal Colleges.

Applications, stating age, nationality, qualifications, and experience, accompanied by copies of not more than three recent testimonials, should be received on or before 31st December, 1938.

R. HALTON HARRISON, Secretary.

## Guy's Hospital Dental School.

Applications are invited for the whole-time post of DENTAL RESEARCH FELLOW, the appointment to begin as soon after 1st January, 1939, as possible. Preference will be given to a biochemist who is prepared to undertake work on dental diseases. The appointment will be for two years in the first instance with the possibility of reappointment. The stipend will be at the rate of £400 per annum.

Applications, accompanied by the names of three persons to whom reference may be made, should be submitted not later than 31st December, 1938, to the Dean, Guy's Hospital Medical School, S.E.1, from whom further particulars regarding the appointment may be obtained.

## Hospital for Consumption and Diseases
OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of HOUSE PHYSICIAN (for which there are three vacancies). The duties include work in the Out-patient Department as well as in the Wards. The appointment is for six months, commencing February 1st, with an honorarium of £50.

Applications, with copies of testimonials, must reach the undersigned not later than Saturday, 7th January, 1939.

F. G. ROUVRAY, Secretary.

Brompton, S.W.3, December, 1938.

## Royal Eye Hospital,
St. George's-circus, Southwark, S.E.1.

Applications are invited for the following combined post:—

MEDICAL OFFICER for CHILDREN'S ORTHOPTIC CLINIC, Monday mornings, salary £80 per annum.

CLINICAL ASSISTANT, Wednesday afternoons, honorarium £20 per annum.

Applications to Secretary, closing date January 4th, 1939.

## Battersea General Hospital
(85 Beds), London, S.W.11.

HONORARY ANÆSTHETISTS.

Applications are invited for the appointments of two Junior Anæsthetists.

Applications, with full particulars of age, qualifications, and experience, with copies of two testimonials, should be sent to the Secretary at the Hospital not later than 30th December, 1938.

The duties will probably include the giving of Dental Anæsthetics. Applicants are asked to state on what days and hours they could attend.

## Battersea General Hospital
(85 Beds), London, S.W.11.

RESIDENT HOUSE PHYSICIAN.

Applications are invited for the appointment of Resident House Physician (Male or Female) for a period of six months commencing the 1st February, 1939.

Salary £130 per annum, with board, residence, and laundry.

Applications, stating age, nationality, qualifications, and experience, with copies of three recent testimonials, to be sent to the Secretary at the Hospital not later than 30th December, 1938.

## King George Hospital, Ilford (near London).

Applications are invited for the post of CLINICAL ASSISTANT to Mr. HAROLD DODD, F.R.C.S. The appointment is for twelve months. Honorarium £10 10s.

Applications should be addressed to the undersigned, by whom they should be received not later than January 12th.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

# Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments. (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

*Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.*

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

RESIDENT CASUALTY OFFICER. Duties to commence 1st February, 1939, for five months. Salary £150 per annum. Previous resident experience is necessary.

Application form may be obtained from the undersigned, and should be duly filled in and returned on or before January 7th, 1939.

RICHARD T. BARTLEY, Secretary.

## King George Hospital, Ilford (near London).

Applications are invited for the post of HONORARY ASSISTANT PHYSICIAN to the King George Hospital. The temporary Assistant Physician is an applicant for the post.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

## Royal Chest Hospital,
City-road, E.C.1.
(Royal Northern Group of Hospitals.)

Applications are invited for the following post:—

HOUSE PHYSICIAN (Male). Vacant 1st February for a period of six months. Salary at the rate of £100 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by the 30th December to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

Royal Northern Hospital, Holloway, London, N.7.

## Hospital for Diseases of the Skin,
Blackfriars.

Applications are invited for the appointment of HONORARY ASSISTANT PHYSICIAN to the above Hospital. Candidates should be either Members of the Royal College of Physicians (London) or Fellows of the Royal College of Surgeons (England).

Applications, with testimonials in support, must be sent before January 9th, 1939, to L. MUNDY, secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

## Springfield Mental Hospital,
Upper Tooting, S.W.17.

MEDICAL SUPERINTENDENT required to commence duty 1st March, 1939. With this appointment is combined that of psychiatrist to Westminster Hospital, London. Applicants must be registered under the Medical Act, possess the D.P.M., and be either Members or Fellows of the R.C.P. Age to be stated. Previous mental hospital experience is essential, and the appointment is subject to the terms of the Asylums Officers' Superannuation Act, 1909. Salary commences at £1200 per annum, rising by £50 per annum to £1500 per annum, together with emoluments, unfurnished house, fuel, light, laundry, and farm and garden produce—valued £200 per annum. The appointment will be subject to three months' notice on either side.

Applications, accompanied by copies of three recent testimonials, to be addressed to the Medical Superintendent and received not later than 7th January, 1939.

Canvassing in any form will disqualify the applicant.

## Metropolitan Borough of Shoreditch.

APPOINTMENT OF AN ASSISTANT MEDICAL OFFICER OF HEALTH (Male).

Applications for the above appointment are invited from duly registered Medical Practitioners.

The duties will be mainly clinical and administrative in maternity and child welfare, but will also include duties in general public health.

The salary will be at the rate of £650 per annum, rising by annual increments of £50 to a maximum of £750 per annum, with an additional £50 per annum if the person appointed has the M.R.C.P. (London).

The appointment will be subject to a medical examination and to the provisions of the Shoreditch and Other Metropolitan Borough Councils (Superannuation) Acts, 1922–37.

Applications must be made on a form to be obtained from the undersigned, and must be returned not later than noon on Monday, the 9th January, 1939.

Canvassing directly or indirectly will disqualify.

R. CYRIL RAY, Town Clerk.

Shoreditch Town Hall, Old-street, E.C.1.,
20th December, 1938.

## Rotherham General Hospital.

HONORARY OPHTHALMIC SURGEON.

The Hospital Committee invite applications for the post of Honorary Ophthalmic Surgeon at the above Institution.

Prompt replies to this advertisement are desirable and full particulars can be obtained from the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham.

## County of Brecon.

APPOINTMENT OF DISTRICT MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of District Medical Officer of Health for the combined areas of the Borough of Brecon, the Urban Districts of Builth Wells, Hay, and Llanwrtyd, and the Rural Districts of Brecknock, Builth, and Hay (360,216 acres, population about 25,000) from 1st April, 1939.

Applicants must be registered in the Medical Register as the holder of a Diploma in Sanitary Science, Public Health, or State Medicine, and must not be over forty-five years of age at the date of application.

The person appointed will be required to perform all the duties imposed on a Medical Officer of Health by Statute and by any Orders, Regulations, or directions from time to time made or given by the Minister of Health, and by any by-laws or instructions of the local authorities concerned in the appointment applicable to the office, and to devote the whole of his time to the duties of his office.

In addition he will be required to undertake the organisation of the Medical Services of the above districts forming part of the Air-raid Precautions Scheme for the county under the general directions of the County Medical Officer of Health and the County Co-ordinating Officer, and he may be required to undertake a certain amount of work in connexion with the medical services provided by the County Council.

Salary £800 per annum, together with an allowance of £100 per annum for travelling, subsistence, provision of office accommodation, and clerical assistance.

The appointment is subject to the approval of the Minister of Health and is pensionable under the provisions of the Local Government Superannuation Act, 1937.

Applications, giving age, medical qualifications, and previous experience (if any), together with copies of three recent testimonials, must be received by me not later than 14th January, 1939.

ALBERT JOLLY, Clerk to the Breconshire County Council.

County Hall, Brecon, 16th December, 1938.

## Borough of Southall.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Men and Women with a public health qualification for the position of full-time Assistant Medical Officer of Health.

The candidate must have had experience in the treatment of cases of Infectious Diseases at an Isolation Hospital, experience in Maternity and Child Welfare Work, and at least three years' experience in the practice of medicine.

The salary will be at the rate of £600 per annum, rising (subject to satisfactory service) by annual increments of £25 to a maximum salary of £700 per annum, with an appropriate car maintenance allowance according to the Council's scale. A deduction will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the appointment will be subject to the successful candidate passing the Council's medical examination in connexion therewith.

Copies of the application form and conditions of appointment can be obtained from the Medical Officer of Health at the Manor House, Southall, to whom applications, accompanied by copies of not more than three recent testimonials, must be delivered not later than 12 o'clock (NOON) on the 14th January, 1939.

Canvassing any Member of the Council by or on behalf of any candidate is prohibited, and will result in the disqualification of that candidate, and each candidate is required to state whether or not he or she is related to any Member or Chief Officer of the Council.

W. STALEY BROOKES, Town Clerk.

Town Hall, Southall, Middlesex, 19th December, 1938.

## Ingham Infirmary, South Shields.
(183 Beds.)

Applications are invited from qualified and registered Medical Men for the post of RESIDENT SURGICAL OFFICER. Salary £300 per annum, with board, residence, &c. Candidates must produce evidence of having had practical Surgical experience in a recognised Hospital. The appointment will be for a minimum period of one year subject to satisfactory service, otherwise to one month's notice on either side.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials (which will not be returned), to be forwarded to the undersigned. The successful applicant will be required to commence duty on the 1st February, 1939.

JOHN POTTER, House Governor and Secretary.

## Birmingham and Midland Eye Hospital.
(114 Beds.)

Applications are invited from duly qualified Medical Practitioners for the post of HOUSE SURGEON at the above Hospital.

Salary £130 per annum (rising to £150 at the end of six months' satisfactory service) and £10 laundry allowance.

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

Applications, with testimonials, and evidence of registration, should be forwarded immediately to the undersigned.

J. W. PEARCE, House Governor.

Church-street, Birmingham, 3.

## County Borough of Middlesbrough.

ST. LUKE'S MENTAL HOSPITAL, GROVE HILL, MIDDLESBROUGH.

The Committee of Visitors invite applications for the appointment of ASSISTANT MEDICAL OFFICER AND DEPUTY MEDICAL SUPERINTENDENT (Male) for the abovementioned Hospital.

Candidates must be fully qualified and duly registered, and preference will be given to one who has held a resident appointment in a General Hospital.

The age of applicants unless with previous Mental Hospital service should not exceed thirty-five years.

Salary £500 per annum (no emoluments) rising by four annual increments of £25 to a maximum of £600, plus an extra payment of £50 per annum to holders of, or who may later obtain, the D.P.M. Unfurnished house on the Estate provided for which a sum of £50 per annum will be deducted from the salary to cover rent, rates, and water.

The appointment is whole time and subject to the provisions of the Asylums Officers' Superannuation Act, 1909. The appointment will be terminable by two months' notice on either side. The successful candidate will be required to undergo a medical examination.

Canvassing will disqualify.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned not later than the 4th January, 1939, endorsed "Assistant Medical Officer and Deputy Medical Superintendent."

PRESTON KITCHEN,
Town Clerk and Clerk to the Committee of Visitors.
Town Clerk's Office, Middlesbrough, 7th December, 1938.

## County Borough of Blackburn.

ASSISTANT SCHOOL MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH (Male).

Applications are invited from registered Medical Practitioners for the post of Assistant School Medical Officer and Assistant Medical Officer of Health (Male) to act under the supervision of the Medical Officer of Health, who is also the School Medical Officer.

The person appointed must devote the whole of his time to the service of the Corporation.

The duties of the office are general, although they will consist largely of work in the School Medical Department. Preference will be given to candidates holding a Diploma in Public Health, who have held resident appointments in General and Infectious Diseases Hospitals.

The salary will be at the rate of £600 per annum, increasing by annual increments of £25 to a maximum of £700 per annum.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Forms of application and further particulars of the duties and conditions of the appointment may be obtained from the Medical Officer of Health, Victoria-street, Blackburn.

Completed forms, together with copies of three recent testimonials, must reach me by Friday, the 6th January, 1939, and should be endorsed on the envelope "Assistant School Medical Officer."

Canvassing, either directly or indirectly will be a disqualification.

CHAS. S. ROBINSON, Town Clerk.
Town Hall, Blackburn.

## Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

EPSOM COUNTY HOSPITAL. (330 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER (Male).

Applications are invited for the appointment, which will be vacant on 1st February, 1939, of Resident Assistant Medical Officer at the Epsom County Hospital.

Applicants must have held a previous resident hospital appointment and should preferably have had experience in maternity work and minor surgery.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Epsom County Hospital, Dorking-road, Epsom, so as to be received not later than 31st December, 1938.

DUDLEY AUKLAND, Clerk of the Council.
County Hall, Kingston-upon-Thames, 16th December, 1938.

## Coventry and Warwickshire Hospital,

COVENTRY.
Main Hospital, 307 Beds.
Convalescent Hospital, 40 Beds.

Applications are invited for the posts of OPHTHALMIC REGISTRAR and OPHTHALMIC CLINICAL ASSISTANT.

Candidates must have had previous Ophthalmic experience.

Applications to be made to the undersigned to be received not later than the first post on Saturday, December 31st, 1938.

S. CECIL HILL, House Governor and Secretary.
December 12th, 1938.

## University of Durham.

KING'S COLLEGE, NEWCASTLE-UPON-TYNE.

ASSISTANT BACTERIOLOGIST IN PUBLIC HEALTH LABORATORY.

Applications are invited from qualified medical Men or Women for the above post. Post-graduate experience in the routine methods of a bacteriological laboratory is desirable. The appointment is a temporary one in the first place, but a permanent appointment will shortly be made. The person will be required to take up duty at the earliest possible date. Salary at the rate of £400 per annum.

Applications should be lodged as soon as possible with the undersigned.

W. G. B. OLIVER, Registrar.

## Huddersfield Royal Infirmary.

(321 Beds.)

Male HOUSE SURGEON required to commence duty on 5th January, 1939.

Salary £150 per annum, with board, residence and laundry.

Appointment for six months, subject to renewal at the discretion of the Board of Management.

The Hospital is officially recognised for the Surgical practice required of non-members before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

## Essex County Council.

JUNIOR RESIDENT MEDICAL OFFICER.

The County Council of the Administrative County of Essex invite applications for the appointment of a Junior Resident Medical Officer at the Oldchurch County Hospital, Romford.

The appointment is for a period of one year and the salary will be at the rate of £250 per annum, together, with the usual indoor emoluments valued at £160 per annum. The successful candidate will be required to pass a medical examination, and will be subject to the Council's sick pay rules and regulations, a copy of which will be forwarded on application.

Applications on the prescribed form obtainable from the undersigned should be addressed to me and delivered at the County Hall, Chelmsford, not later than 10 A.M. on Saturday, 31st December, 1938.

E. S. HOLCROFT, Clerk of the County Council.
County Hall, Chelmsford, 13th December, 1938.

## Harrogate Royal Bath Hospital.

(A National Hospital for Rheumatic and Allied Diseases.)
(150 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) to commence duties beginning of February, 1939.

Salary £200 per annum, with board, residence and laundry.

Exceptional facilities for research or preparation of thesis.

Applications, stating qualifications, age, &c., with copies of recent testimonials, to be forwarded to the undersigned.

E. P. L. DIXON, M.A., Secretary.

## Royal United Hospital, Bath.

HOUSE PHYSICIAN required for 1st January, 1939. Resident Staff of two House Physicians and three House Surgeons.

Duties include some Casualty. Salary £150 per annum, board, residence and laundry.

The appointment is for six months, and candidates must be Male, unmarried, and of British nationality.

Applications, with copies of three testimonials, to be addressed to the undersigned by December 27th.

J. LAWRENCE MEARS, Secretary-Superintendent.
13th December, 1938.

## Watford and District Peace Memorial

HOSPITAL.
(154 Beds.)

Applications are invited for the following post for a period of six months commencing 1st February, 1939:—

HOUSE PHYSICIAN (Female).

Salary at the rate of £150 per annum, with board and laundry.

Applications, stating age, nationality, and qualifications, together with three testimonials, to be forwarded to the undersigned not later than 31st December, 1938.

T. H. FLETCHER, Secretary.

## Ancoats Hospital, Manchester, 4.

ASSISTANT PATHOLOGIST, Lady or Gentleman, whole-time appointment—no private work allowed. Salary £400 per annum; live out. Luncheon and tea provided. The appointment is for twelve months and is renewable.

Applications for the above post, stating age and particulars of qualifications and experience, to be forwarded to the undersigned on, or before 4th January, 1939, together with copies of three recent testimonials.

By Order of the Board,
HERBERT J. DAFFORNE, General Superintendent and Secretary.

## The Babies' Hospital,
NEWCASTLE-ON-TYNE.

Non-resident MEDICAL OFFICER required February 1st.

The duties are those of a Resident Physician and the post offers opportunities for study and research work. The appointment is for six months, which may be extended to twelve months. Salary £160 per annum.

Applications, with two testimonials and particulars of previous appointments held, must be sent by January 4th, to the Secretary, Babies' Hospital, West Parade, Newcastle-on-Tyne.

## Cheshire Education Committee.

ASSISTANT SCHOOL MEDICAL OFFICER (Woman).

Applications are invited from qualified single Women for a whole-time post as Assistant School Medical Officer, to reside at Altrincham.

Candidates must have had at least three years' practical experience in their profession and be not more than forty-five years of age.

Commencing salary £500, rising by £25 annually to £700 (less 5 per cent. for superannuation). Travelling expenses on County scale.

Forms of application, containing full particulars of appointment, may be obtained from the undersigned and must be received, duly completed, not later than the 9th January, 1939.

IAN MACKAY, M.B., Ch.B., School Medical Officer.

24, Nicholas-street, Chester.

## Birkenhead Education Committee.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited for the position of Assistant School Medical Officer at a salary of £500 per annum, rising by annual increments of £25 to a maximum of £700. The post is designated under the Local Government and Other Officers' Superannuation Act, 1922, and will carry with it the designation of "Assistant School Medical Officer and Assistant Medical Officer of Health."

In fixing the commencing salary within the scale regard will be paid to previous recognised service.

The duties will mainly consist of the inspection and treatment of children attending schools in the borough.

Applicants must be duly qualified Medical Practitioners with experience, and must hold the Diploma of Public Health.

The person appointed will be required to reside within the borough.

Canvassing, either directly or indirectly, will be regarded as a disqualification.

Particulars of the appointment and form of application may be obtained from Dr. D. Morley Mathieson, Medical Officer, 9, Hamilton-square, Birkenhead, and applications must be delivered not later than January 14th, 1939, to

G. B. DEMPSEY, Director of Education.

Education Offices, Hamilton-square, Birkenhead.

## East Riding Mental Hospital, Beverley.

The Visiting Committee of the East Riding Mental Hospital invite applications from registered Medical Practitioners for the appointment of DEPUTY MEDICAL SUPERINTENDENT (Male) of the Hospital at a commencing salary of £600 per annum, increasing by annual increments of £25 to a maximum of £700 per annum, together with emoluments comprising unfurnished house (rent and rates free), and garden produce. The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applicants must have had previous mental hospital experience and be not more than forty years of age.

Applications must be made on forms to be obtained from the undersigned, to whom they must be returned together with copies of three recent testimonials not later than the 14th January, 1939.

GODFREY MACDONALD, Clerk of the Visiting Committee.

County Hall, Beverley, 19th December, 1938.

## City of Leicester.

RESIDENT MEDICAL OFFICER.

Resident Medical Officer (Male) required for the CITY ISOLATION HOSPITAL AND SANATORIUM, Groby-road.

Appointment for a period of six months, renewable if service is satisfactory for a further period of six months.

Salary at the rate of £300 per annum, with the usual residential emoluments. The officer appointed may be required to assist with Infant Welfare work.

Applications, on forms to be supplied, to be sent to the undersigned not later than the 11th January, 1939.

E. K. MACDONALD, Medical Officer of Health.

Health Offices, Grey Friars, Leicester, December, 1938.

## Royal Salop Infirmary, Shrewsbury.
(150 Beds.)

APPOINTMENT OF TWO HOUSE SURGEONS.

Applications are invited from fully qualified unmarried Gentlemen for the posts of Resident House Surgeons, vacant in January, 1939.

Salary £160 per annum, with board, residence, &c.

The appointments are for six months, subject to reappointment.

Applications, stating age, qualifications, experience, and nationality, accompanied by copies of three recent testimonials, to be sent to the undersigned forthwith.

J. W. NOBLE, Secretary-Superintendent.

Board Room, 14th December, 1938.



## Royal Salop Infirmary, Shrewsbury.
(150 Beds.)

APPOINTMENT OF RESIDENT HOUSE PHYSICIAN.

Applications are invited from fully qualified unmarried Gentlemen for the appointment of Resident House Physician, vacant in January, 1939.

Salary £160 per annum, with board, residence, &c.

The appointment is for six months, subject to reappointment. Resident Staff comprises Resident Surgical Officer, Resident House Physician, and two Resident House Surgeons.

The Resident House Physician is Resident Officer to the Medical Wards of the Hospital under the direction of three Honorary Physicians.

Applications, stating age, qualifications, experience, nationality, and accompanied by copies of three recent testimonials, to be sent to the undersigned forthwith.

J. W. NOBLE, Secretary-Superintendent.

Board Room, 14th December, 1938.

## Dundee Royal Infirmary.

RADIOLOGIST.

The Directors invite applications from fully qualified Radiologists for a whole-time appointment in this Hospital. Candidates must be registered Medical Practitioners, holding a Diploma in Radiology, and having adequate experience of the therapeutic administration of X-Rays and Radium.

Salary at the rate of £750 per annum, with participation in fees for treatment of paying patients, and with a guaranteed minimum remuneration of £1000 per annum. Copy of conditions of appointment and particulars of duties may be obtained from the Medical Superintendent.

Applications and testimonials (twenty-four copies of each) should be lodged with the undersigned on or before 25th January, 1939.

W. F. FERGUSON, Secretary.

Royal Infirmary, Dundee.

## The Royal Infirmary, Sheffield.
(476 Beds.)

The Board of Management invite applications for the post of SENIOR CASUALTY OFFICER. Salary is at the rate of £150 per annum, with board and residence, and the appointment will be tenable for the six months' period commencing 1st January, 1939. This post is next in seniority to that of the Resident Surgical Officer.

Applications, with copies of testimonials, to be sent to the General Superintendent and Secretary forthwith.

17th December, 1938.

## King Edward VII Hospital, Windsor.
(200 Beds.)

A vacancy occurs on the Honorary Medical Staff for an HONORARY ASSISTANT OPHTHALMIC SURGEON.

Applications stating qualifications and experience to reach the Secretary at the above Hospital by December 31st.

## Bracebridge Heath Hospital, near
LINCOLN.

DEPUTY MEDICAL SUPERINTENDENT.

The Committee of Visitors invite applications for the above whole-time appointment from gentlemen under thirty-five years of age, who are duly qualified and registered Medical Practitioners.

The commencing salary and emoluments will be £700, rising by annual increases of £25, subject to satisfactory service to the Committee, to a maximum of £750. An additional £50 per annum will be paid for the D.P.M., this Diploma being considered an essential by the Committee. The nature and value of the emoluments will depend on whether the successful applicant is married or single. Details of emoluments will be attached to forms of application.

The successful candidate will be required to pass satisfactorily a medical examination and to join the scheme under the Asylums Officers' Superannuation Act, 1909. The appointment is subject to one month's notice on either side.

Form of application can be obtained from the Clerk of the Hospital and should be returned to the Medical Superintendent not later than 9 A.M. on Thursday, January 5th, 1939, accompanied by copies of three recent testimonials.

## County Borough of Brighton.

SANATORIUM AND INFECTIOUS DISEASE HOSPITAL.

Applications are invited for the post of Male JUNIOR RESIDENT MEDICAL OFFICER.

Salary £250 per annum, with board and lodging.

The appointment is for a period of six months.

The post is designated under the local Government and Other Officers Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination before being appointed to the position.

Particulars and form of application can be had from the undersigned.

Applications must be delivered at my office before 10 A.M. on Tuesday, January 3rd, 1939.

DUNCAN FORBES, Medical Officer of Health.

Royal York-buildings, Brighton, 1, 12th December, 1938.

## County Borough of Brighton.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

The Council invite applications for the appointment of Medical Officer of Health at a salary of £1250 per annum, rising by annual increments of £50 to a maximum of £1750.

Forms of application, together with the qualifications, duties, and conditions required or attached to the position, may be obtained from me.

Applications (with copies of three recent testimonials, and endorsed "Medical Officer") must be delivered at my office before 10 o'clock in the forenoon of Tuesday, the 10th day of January, 1939.

Canvassing either directly or indirectly will disqualify.

J. G. DREW, Town Clerk.

Town Hall, Brighton, 19th December, 1938.

## City of Leeds.

PUBLIC HEALTH DEPARTMENT.

ST. JAMES'S HOSPITAL. (1330 Beds.)

RESIDENT MEDICAL OFFICER (Male).

Applications are invited for the above appointment, the duties of which are entirely medical. Candidates must be single, and should have had considerable experience in general medicine and possess one of the higher qualifications. The position offers excellent opportunity for extensive experience in medicine. The person appointed will be required to work under the direction of the Medical Superintendent and in association with the Visiting Physicians. He will also have the supervision of the immediate clinical work of four House Physicians.

Under the present scale of salaries of the Corporation the commencing salary for the post is £350 per annum, and the maximum £450 per annum, with annual increments of £25, subject to satisfactory service. The first increment will take effect on the 1st April following the completion of twelve months' service. Board, residence, and laundry are provided, these emoluments being valued for superannuation purposes at £120 per annum.

The person appointed will be required to pass a medical examination and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922.

The appointment will be terminable by one month's notice.

Applications, on a form to be obtained from the undersigned, together with copies of three recent testimonials, and endorsed "Resident Medical Officer," must be received at the Public Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10 A.M. on Monday, 9th January, 1939.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

## The Lawn, Lincoln.

ASSISTANT MEDICAL OFFICER required.

Medical Woman, with Mental Hospital experience or working for D.P.M. preferred.

Salary £300 per annum, with emoluments. Apply, Medical Superintendent. The Lawn. Lincoln.

## City of Birmingham.

DUDLEY-ROAD HOSPITAL. (926 Beds.)

Applications are invited from fully qualified Medical Practitioners for whole-time appointment as JUNIOR MEDICAL OFFICER (Male) at the Dudley-road Hospital, Birmingham. The appointment will be for a period of six months, but may be extended for a further period of not exceeding six months. Salary at the rate of £200 per annum and full residential emoluments.

Further particulars may be obtained from the Medical Superintendent at Dudley-road Hospital, to whom applications, stating age, experience, and qualifications with copies of recent testimonials, should be forwarded not later than Thursday, December 29th, 1938.

## East Suffolk and Ipswich Hospital.

(350 Beds. 8 Residents.)

Wanted, 1st February, 1939, HOUSE SURGEON (Male—British) to a General Surgeon and Assistant General Surgeon. The Hospital is recognised by the Royal College of Surgeons in respect of this post. Salary at the rate of £144 per annum, with board, apartments, and laundry.

Applications, stating age, qualifications, and experience, to be sent to the undersigned, together with copies of three recent testimonials.

ARTHUR GRIFFITHS, Secretary.

The Hospital, Ipswich, 17th December, 1938.

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12. LONDON, S.E.—PLEASANT RESIDENTIAL SUBURB.—PARTNERSHIP.—One-half Share in very sound old-estab. mixed-class Practice. Receipts stated to average between £3000–£3100 p.a. Panel of 3100. Appointments worth about £280 p.a. Good house with large garden (6 bedrooms, &c.). Rent £100 p.a. Premium 2 years' purchase. Ingoing partner should be English or Scottish, 30 or over, and preferably married.
13. HOME COUNTIES.—ATTRACTIVE RESIDENTIAL DISTRICT WITHIN EASY REACH OF TOWN.—PARTNERSHIP.—Two-fifths Share in well-estab. good mixed-class Practice. Receipts approximately £4800 p.a. Panel of 2700. Fees from 3s. 6d. to 21s. Suitable house available. Premium 2 years' purchase. Ingoing partner should be experienced, 30–40, and preferably have a University degree.
14. NORFOLK.—POPULAR HOLIDAY RESORT.—Good-class PRACTICE averaging £530 p.a., including panel of 122 and small appointments. Fees from 3s. 6d. Good house (4 bedrooms, &c.). Large garden. Moderate premium. Considerable scope, Vendor retiring. Sport of all kinds. Good schools.

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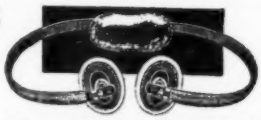

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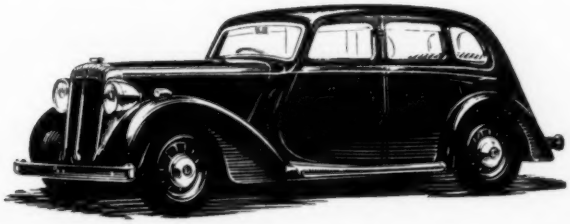

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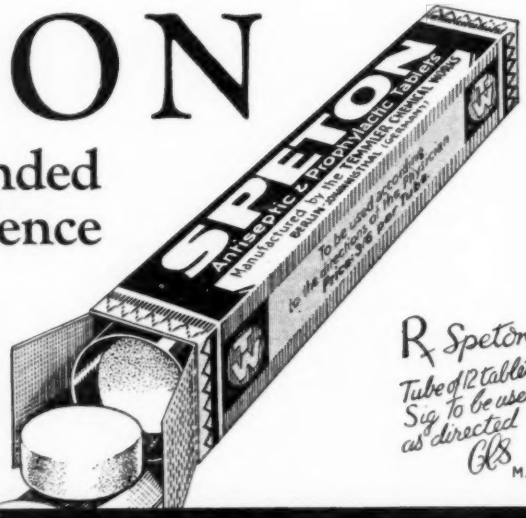


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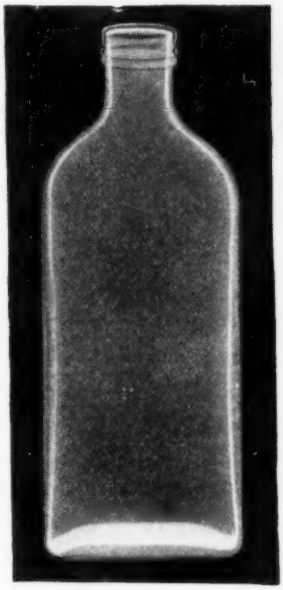

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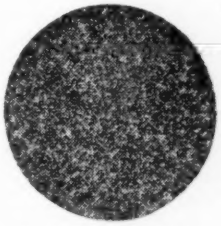

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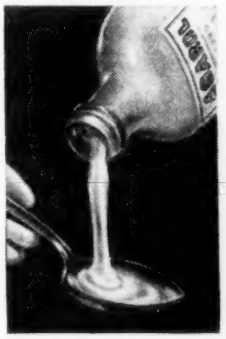

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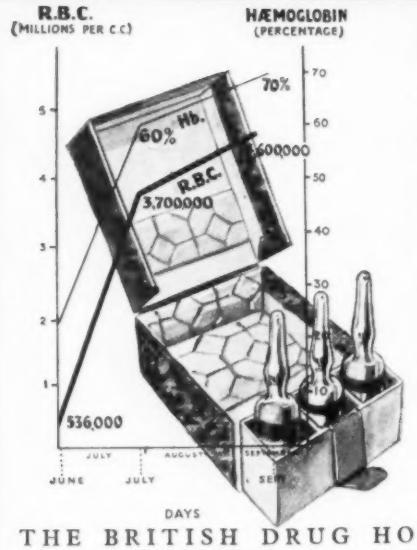


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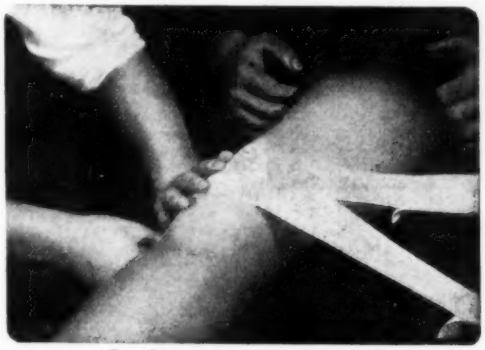

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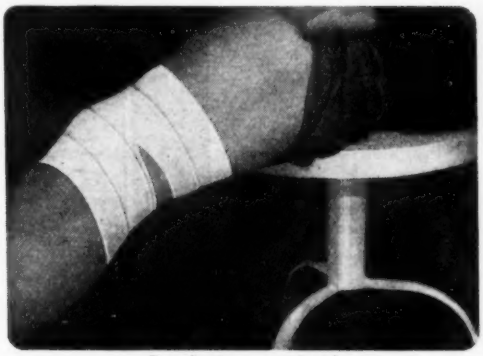

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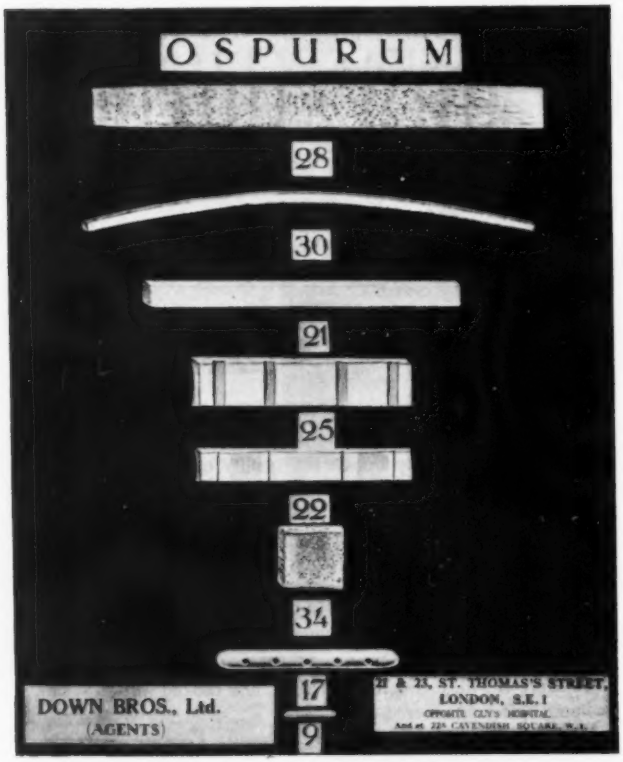


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Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

**The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.**

# FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Colne, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

*For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9*

# THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

*Med. Supt.:* GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

# PRIOR PLACE SANATORIUM

**HEATHERSIDE, CAMBERLEY, SURREY.**

**FOR THE TREATMENT OF PULMONARY TUBERCULOSIS**

Well situated on high ground and surrounded by pines and heather.
**All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.**
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: **Dr. H. O. BLANFORD, to whom application for admission can be made.**

## COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

## CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

*Resident Physicians*—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

*Telephones*—STARCROSS 59 and TEIGNMOUTH 289

## CRICHTON ROYAL, DUMFRIES

### For NERVOUS AND MENTAL DISORDERS

This hospital has every facility for complete investigation of the above conditions, and provides all forms of modern treatment, including psychotherapy, physiotherapy, occupational and recreational therapy. Cases of alcoholism and drug addiction are admitted. The Physiotherapy Department has separate units fully equipped for X-ray work, heliotherapy, short-wave therapy, electro-therapy, and hydrotherapy (swimming bath, prolonged baths, Scotch and Vichy douches, Plombières treatment, electric and Turkish bath cabinets, etc.). There is a fully equipped gymnasium under qualified instructors. Facilities are provided under special recreational therapists for all indoor and outdoor games, including golf course, cricket, football and hockey grounds, lawn tennis and squash courts, croquet and bowling greens.
The Hospital has its own Church, Library, Cinema and Hairdressing Saloon. Terms include regular motor drives.
Private rooms, suites, or villas are available, and special nurses can be provided. The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens and orchards.
As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

*For prospectus, necessary forms, and further information apply to:—*

Physician Superintendent, **P. K. McCowan,** J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119.

## SHAFTESBURY HOUSE FORMBY-BY-THE-SEA, Nr. LIVERPOOL

Specially built and licensed for the care and treatment of a limited number of Ladies and Gentlemen suffering from NERVOUS and MENTAL breakdown. Voluntary and certified patients received. Ladies also admitted as Temporary Patients without certification. Terms moderate. *Apply,* RESIDENT PHYSICIAN, who may be seen at 31, Rodney Street, Liverpool, by appointment. *Tel. No.* 8 *Formby.*

## TOR-NA-DEE SANATORIUM

### MURTLE, DEESIDE, ABERDEENSHIRE

FOR THE DIAGNOSIS AND TREATMENT OF ALL FORMS OF TUBERCULOSIS

Managing Director: **DAVID LAWSON,** M.D., F.R.S.E.

Southern aspect. Low rainfall. Pure bracing air. Sheltered grounds. Beautiful surroundings. All modern equipment for diagnosis and treatment, including operating theatre. **No extra charge for X Rays, Artificial Pneumothorax, Ultra-Violet Light, or other special treatment.**

Day and night Nursing Staff. All bedrooms have central heating, electric light, hot and cold running water, and wireless (head-phones). Comfortable and airy public rooms.

Medical Superintendent: J. M. JOHNSTON, M.B., M.R.C.S., D.P.H. For terms and prospectus apply to the Secretary.

Telephone: Cults 107.

## NEW LODGE CLINIC,

### WINDSOR FOREST.

**New Lodge Clinic was founded in 1921 in order to provide for the scientific investigation and treatment of disease by a "team" of physicians and specialists.**

**All forms of non-infectious medical cases are admitted, special attention being paid to disorders of digestion and metabolism, arthritis, anæmias, asthma, heart and kidney disease, tropical diseases, and functional and organic nervous disorders.**

**Particulars can be obtained on application to**

**The Secretary, New Lodge Clinic, Windsor Forest, Berks.** *Telephone:* **181 & 182, Winkfield Row.**

# PENDYFFRYN HALL SANATORIUM

All Modern Methods of Treatment Available.

Ideally situated for the treatment of Tuberculosis. Sheltered from E. & N.E. winds. Climate mild and bracing. Low rainfall, high average of sunshine. The Sanatorium is situated in its own park. There are miles of graduated walks through pine, gorse and heather, rising to 800 ft., and commanding extensive sea and mountain views. Central heating, electric light, X-ray installation. Wireless in all rooms. Full day and night nursing staff. Special milk supply from a tuberculin tested herd. Easily accessible from LONDON (4½ hours), MANCHESTER, LIVERPOOL, BIRMINGHAM and the North.

**Rooms now available from 5 guineas weekly.**

Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

For particulars apply to the Secretary, Pendyffryn Hall, near Penmaenmawr, North Wales. 'Phone 20.

# PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

**Telegrams: "Alleviated, London."** **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

# CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines)

# CALDECOTE HALL

**NUNEATON**
**WARWICKSHIRE**

('Phone: Nuneaton 241)

Residential treatment of

## "Nervous Disorders" & Alcoholism

(Certifiable cases are not received)

This beautiful mansion situated in the heart of the country (less than two hours from London by L.M.S.R.) and surrounded by charming pleasure grounds in which games and outdoor occupational therapy are available is devoted to the treatment of Alcoholism and "Nerves" by psychotherapeutic and ancillary methods.

*Illustrated Brochure and particulars obtainable from A. E. CARVER, M.D., D.P.M., Resident Medical Superintendent.*

# THE OLD MANOR SALISBURY

*A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.*

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate

**CONVALESCENT HOME AT BOURNEMOUTH** Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

# PARK SANATORIUM

(FORMERLY SANATORIUM TURBAN)

**DAVOS-PLATZ, SWITZERLAND**

**First-class house, 5,150 ft. above sea-level. Large park and wood belonging to the sanatorium. Terms for board and residence, including room, medical treatment, etc., from Frs. 16.– per day. Prospectus.**

**Medical Superintendent, F. BAUER, M.D.**

# HAYDOCK LODGE,

## NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

## CLARENCE LODGE

**CLAPHAM PARK, LONDON**

Situated in 3½ acres of secluded gardens.

**HOME FOR TWELVE MENTAL PATIENTS (LADIES).**

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

*Station:* Clapham Common Tube.

*Phone:* Tulse Hill 4913

Apply MISS THWAITES.

## RUSSELLS

**Hemel Hempstead Road,**

**WATFORD**

**Telephone: WATFORD 5917**

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

## THE ARCHER NERVE TRAINING COLONY

**LANGLEY RISE, KING'S LANGLEY, HERTS.**

Started 34 years ago by the late Mrs. William Archer for the special treatment of **FUNCTIONAL NERVOUS DISORDERS** by a system of Relaxation correlated with training in Nerve Control. Home life in separate houses in charming grounds; 20 miles from London; Chalets for resting. Eurhythmics, Voice Production, Occupational Therapy, etc. Telephone: King's Langley 7519. Lessons and Treatments in the art of Relaxation can also be obtained at the "**FRANCES ARCHER**" Centre, 30, Dorset Sq., N.W.1 (near Baker St. Stn.), Weds. and Sats. 10-1 p.m., 2-5.30 p.m. Tel.: Ambassador 2864. All applications to the Secretary, King's Langley.

## THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

President: The Right Hon. the LORD SAYE AND SELE.

This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

## THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

## NERVOUS & MENTAL AFFECTIONS

*Ladies only received*

## The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

## STRETTON HOUSE,

**Church Stretton, Shropshire.**

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

## NORTHUMBERLAND HOUSE

GREEN LANES,

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

*Telephone:* Stamford Hill 2688.

For further particulars apply to the MEDICAL SUPERINTENDENT.

## HOME FOR EPILEPTICS

**MAGHULL (near LIVERPOOL)**

**FARMING and OPEN AIR OCCUPATION for PATIENTS**

**A few vacancies in 1st and 2nd Class Houses.**

FEES: 1st Class (men only) from £3 p.w. upwards.
2nd Class (men and women) 32/- p.w.

*For further particulars apply:*

**C. EDGAR GRISEWOOD, A.C.A., Secretary,**
**20 Exchange Street East, Liverpool, 2**

## HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

## BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

*For further particulars apply—*

Dr. ERNEST ROLLINS, Resident Physician.

*Tel.:* Amherst 1642.

## CHISWICK HOUSE,

**PINNER, MIDDLESEX.**

**Telephone: PINNER 234.**

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

## ALCOHOLISM

***Drug Habits, and Nervous Disorders***

25 minutes from London, situated in charming grounds and country, is a "home from home" for those seeking rest and treatment under medical supervision. Fees from 6 guineas. Illustrated brochure on application to the Matron. **RESIDENT MEDICAL SUPERINTENDENT,** E. G. MORRIS, L.R.C.S.I., L.R.C.P.I.

**CHISLEHURST 451**

## OLD HILL HOUSE

**CHISLEHURST, KENT.**

# SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

**For Mental Cases with or without Certificates.**

*Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).*

For forms of admission &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

## CITY OF LONDON MENTAL HOSPITAL

**Near DARTFORD, KENT.**

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

## FENSTANTON

**Christchurch Road, Streatham Hill, S.W.2**

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

*Apply:* **Dr. MADELINE R. LOCKWOOD,**
*phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

## Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. MCCLINTOCK, Proprietor and Resident Medical Superintendent

## RHEUMA SPA, KINMEL HALL,

**ABERGELE, NORTH WALES**

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

*IDEAL WINTER QUARTERS—REDUCED RATES*

## The Physical Treatment Centre that is "different"!

50 minutes from London (Victoria). 15 minutes from Brighton. Standing in 7 acres of lovely grounds at the foot of the South Downs.

**Climate,** mild but not relaxing. No fogs, sheltered from cold winds.

**Comfort,** Service and every facility for Physical Treatment, without irksome restrictions of nursing home or clinic.

**Treatments,** Include: Foam Baths, Ultra-Violet and Infra-red Ray, Diathermy, and other Electrical treatments, Pistany Mud Packs, etc. Massage and Remedial Exercises, Fully-qualified staff. Resident Physician.

**Convalescent** patients specially catered for.

Electric Lift to all floors. Fully Licensed. Superb Cuisine, Special Dieting if required.

● *Medical Practitioners are cordially invited to visit the Restorium. Write for Brochure and Terms to: Physician in Charge, Sunnyside Restorium, Hassocks, Sussex. Telephone: Hassocks 103.*

## *Sunnyside Restorium*

HASSOCKS . . . SUSSEX

## Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received. Apply to Dr. HAYNES. Tel.: Brentwood 45.

## THE MARINE SPA

(under the direction of the Corporation)

# TORQUAY

Newly fitted Balneological, Electro-Medical, and Small Turkish and Russian Bath sections for recognised forms of Spa, etc., treatment, under mild winter climatic conditions. Large Cooling Lounge, and "Vita" Glass Sun Lounge. Warm Sea-Water Swimming Bath with modern filtration plant. Assistants with C.S.M.M.G., and Bio-Physical qualifications.

*Illustrated Spa and Health Resort Brochures post free on application.*

H. Berkeley Hollyer, General Manager.
(late Manager, Brine Baths, Droitwich Spa)

## THE CLINIC

**20 Devonshire Place**
**London, W.1**

***Tel.: Welbeck 4444 (20 lines)***

## A NURSING HOME FOR SURGICAL, MEDICAL AND MATERNITY CASES

Fees 10 gns. to 18 gns. per week (Average—14 gns.).
8 Operating Theatres.
150 State Registered Nurses.
2 Resident Medical Officers (for emergencies).

Patients only received under the supervision of their own Medical Practitioner.

Drugs and Dressings free (other than Proprietary Articles).
Illustrated Brochure on application to Secretary.

## Smedley's

Great Britain's Greatest Hydro

**Matlock**

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

*Resident Physicians:* G. C. R. HARBINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.**

*Illustrated Brochure C.J. on request.*

*'Phone:* Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

**SAN REMO** **OSPEDALETTI BORDIGHERA**

**The three pearls of the Italian Riviera.**

Mild climate, brilliant sky and pure air—during Winter daily 9–12 hours' sunshine—quiet and favoured resort for convalescents and people in need of quietude.

**SAN REMO—HOTEL REALE**

For every comfort and attraction. On the promenade. Overlooking the sea.

M. Bertolini, Prop.

**SAN REMO—EXCELSIOR**

First class, quiet, protected South position in the East Bay. Diet cures. Sun verandas. Sea—and medical bathing. Tennis. Open the whole year round.

## Hospital for Consumption and Diseases
OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of HOUSE PHYSICIAN (for which there are three vacancies). The duties include work in the Out-patient Department as well as in the Wards. The appointment is for six months, commencing February 1st, with an honorarium of £50.

Applications, with copies of testimonials, must reach the undersigned not later than Saturday, 7th January, 1939.

F. G. ROUVRAY, Secretary.

Brompton, S.W.3, December, 1938.

## Royal Eye Hospital,
St. George's-circus, Southwark, S.E.1.

Applications are invited for the following combined post:—

MEDICAL OFFICER for CHILDREN'S ORTHOPTIC CLINIC, Monday mornings, salary £80 per annum.

CLINICAL ASSISTANT, Wednesday afternoons, honorarium £20 per annum.

Applications to Secretary, closing date January 4th, 1939.

## London Chest Hospital,
Victoria Park, E.2.
(Bus, Tram and Rly. Cambridge Heath, L.N.E. Rly.)

REGISTRAR—Ear, Nose, and Throat Dept. (Male) (Part-Time).

Applications are invited for the above post.

The appointment will be for a period of one year.

Honorarium £50 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before 3rd January, 1939.

THOMAS BROWN, Secretary.

## London Chest Hospital,
Victoria Park, E.2
(Bus, Tram and Rly. Cambridge Heath, L. & N.E. Rly.)

SURGICAL REGISTRAR (Male) (Part-time).

Applications are invited for the above post.

Four sessions a week, Tuesday and Friday mornings essential. Appointment is for one year. Honorarium £100 per annum.

Applications, with copies of three testimonials, should be sent to the undersigned on or before 3rd January, 1939.

THOMAS BROWN, Secretary.

## Royal Free Hospital,
Gray's Inn-road, London, W.C.1.

Applications are invited from duly qualified and registered Medical Men for the following post:—

RESIDENT CASUALTY OFFICER. Duties to commence 1st February, 1939, for five months. Salary £150 per annum. Previous resident experience is necessary.

Application form may be obtained from the undersigned, and should be duly filled in and returned on or before January 7th, 1939.

RICHARD T. BARTLEY, Secretary.

## The Samaritan Free Hospital for
WOMEN, Marylebone-road, N.W.1.

Applications are invited for the post of HOUSE SURGEON for a period of six months, commencing January 15th next. Salary at the rate of £100 per annum, with board, lodging, and laundry. Previous experience as House Surgeon essential.

Applications, stating age, accompanied by copies only of testimonials, should be sent to the Secretary at the Hospital on or before Friday NOON, January 6th, 1939.

G. H. HAWKINS, Secretary.

## Hospital for Diseases of the Skin,
Blackfriars.

Applications are invited for the appointment of HONORARY ASSISTANT PHYSICIAN to the above Hospital. Candidates should be either Members of the Royal College of Physicians (London) or Fellows of the Royal College of Surgeons (England).

Applications, with testimonials in support, must be sent before January 9th, 1939, to L. MUNDY, secretary to the Hospital for Diseases of the Skin, 71, Blackfriars-road, S.E.1, from whom any further information may be obtained.

## King George Hospital, Ilford (near
London).

Applications are invited for the post of CLINICAL ASSISTANT to Mr. HAROLD DODD, F.R.C.S. The appointment is for twelve months. Honorarium £10 10s.

Applications should be addressed to the undersigned, by whom they should be received not later than January 12th.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

## The Infants Hospital,
Vincent-square, Westminster.

The Committee of Management invite applications for the post of RESIDENT MEDICAL OFFICER.

Candidates must have held previous resident Hospital appointments for not less than six months, and must have had Pædiatric experience. The appointment is for one year from March 1st with eligibility for reappointment. Salary £300 per annum, with board, lodging, and laundry.

Candidates are expected to call upon, and send a copy of application and testimonials to, each member of the Honorary Medical and Surgical Staff.

Applications, with copies of testmonials, should be sent not later than January 30th to the undersigned, from whom copies of the rules may be obtained.

ARNOLD TUNSTALL.

## Metropolitan Borough of Shoreditch.

APPOINTMENT OF AN ASSISTANT MEDICAL OFFICER OF HEALTH (Male).

Applications for the above appointment are invited from duly registered Medical Practitioners.

The duties will be mainly clinical and administrative in maternity and child welfare, but will also include duties in general public health.

The salary will be at the rate of £650 per annum, rising by annual increments of £50 to a maximum of £750 per annum, with an additional £50 per annum if the person appointed has the M.R.C.P. (London).

The appointment will be subject to a medical examination and to the provisions of the Shoreditch and Other Metropolitan Borough Councils (Superannuation) Acts, 1922–37.

Applications must be made on a form to be obtained from the undersigned, and must be returned not later than noon on Monday, the 9th January, 1939.

Canvassing directly or indirectly will disqualify.

R. CYRIL RAY, Town Clerk.

Shoreditch Town Hall, Old-street, E.C.1.,
20th December, 1938.

## London Hospital, E.1.

There is a vacancy for the post of FIRST ASSISTANT to the OPHTHALMIC DEPARTMENT. Candidates must be fully qualified medically.

Applications should be made to the Secretary, from whom further particulars may be obtained, and should arrive not later than Saturday, January 14th, 1939.

H. L. MILSOM, Secretary.

## London Hospital, E.1.

There is a vacancy for the post of CLINICAL ASSISTANT in the X-Ray Department. Candidates must be fully qualified medically. Experience in Radiology is essential. The honorarium of the post is £100 per annum.

Applications, with testimonials, should be sent to the House Governor, and should arrive not later than Saturday, January 14th, 1939.

ARTHUR G. ELLIOTT, House Governor.

## Royal National Orthopædic Hospital.

Applications are invited for the posts of HOUSE SURGEON (two, Male, unmarried) at this hospital's country branch at Brockley-hill, Stanmore, Middlesex. 278 Beds (160 cases of Surgical Tuberculosis).

Salary £150 per annum, with board, quarters, and laundry. The appointments are for six months. Duties to commence, one on February 1st and one on March 1st. Applications, with copies of testimonials, should be sent to the Secretary, 234, Great Portland-street, W.1, not later than January 11th.

# ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

## Bolingbroke Hospital,

Wandsworth Common, S.W.11.
(135 Beds.)

HOUSE PHYSICIAN (Male, unmarried) required.

The appointment is for six months commencing on the 1st February, 1939. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before the 11th January, 1939.

W. S. RANDOLPH BISS, Secretary-Superintendent.

## The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

An OUT-PATIENT SURGICAL ASSISTANT is required.

Duties to commence early in February, 1939. Honorarium £50 per annum.

The appointment is tenable in the first instance for one year, but is renewable.

Duties will include attendance upon members of the Surgical Staff in the Out-patient Department on two mornings a week.

Candidates must possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital. Preference will be given to those holding the Fellowship of the Royal College of Surgeons of England.

Applications must be received by NOON on Monday, the 23rd January, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 1st February, 1939.

Full instructions and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

December, 1938.

## Hampstead General Hospital,

Haverstock-hill, N.W.3.

The Council of Management is prepared to receive applications for the office of RADIOLOGIST to the Hospital.

Candidates are required to be registered Medical Practitioners confined to the specialty of Radiology and should hold a diploma in Medical Radiology and Electricity.

Applications, stating age, qualifications, and experience, with copies of three testimonials, must reach the undersigned by 23rd January, from whom full particulars should be obtained.

By order of the Council.

KENNETH A. F. MILES, Secretary.

## Corporation of Willesden.

ASSISTANT MEDICAL OFFICER (Male).

A whole-time Medical Officer (Assistant, Male) holding a registrable qualification in Public Health is required in the Health Department of the Corporation of Willesden. Applicants must be under 40 years of age.

The salary is £600 per annum, rising after three years' satisfactory service by increments of £30 per annum to £750.

The appointment is subject to the Local Government and Other Officers' Superannuation Act, 1922, and the Local Government Superannuation Act, 1937; to three months' notice on either side; to the Council's Regulations concerning officers of the Council, and to residence within the Borough of Willesden. The successful applicant will be required to pass a medical examination.

Application forms, with full particulars of the appointment, may be obtained from the Medical Officer of Health, Health Department, 54, Winchester Avenue, Kilburn, London, N.W.6, and must be returned to him not later than 9 A.M. on Monday, the 16th January, 1939.

Envelopes containing communications relative to this appointment must have "Medical Officer" written in the top left-hand corner.

W. T. PIRIE, Deputy Town Clerk.

Town Hall, Dyne-road, Kilburn, London, N.W.6.,
December, 1938.

## The Royal Surgical Aid Society,

Salisbury-square, Fleet-street, E.C.4, desires the services of a JUNIOR SURGEON, who would be prepared to attend at the office as above, twice weekly, to prescribe appliances for patients. Applicants should be between thirty and forty years of age, Fellows of the Royal College of Surgeons of England, and with Orthopædic experience. The honorarium is 100 guineas per annum.

Further particulars may be obtained from the Secretary, address as above, by whom applications should be received not later than January 9th.

## London County Council.

Applications invited for one full-time position of ASSISTANT MEDICAL OFFICER. Duties chiefly concerned with slum clearance and school medical work. Special experience relating thereto desirable. Applicants must hold diploma or degree in public health. Salary £750.

Application form with full particulars (stamped, addressed foolscap envelope necessary) from Medical Officer of Health (S.D.5), County Hall, Westminster-bridge, S.E.1, returnable by 21st January. Canvassing disqualifies.

## Maida Vale Hospital for Nervous DISEASES, London, W.9.

HOUSE PHYSICIAN (required February 1st).

Applications are invited for the above post. Salary is at the rate of £100 per annum, and the appointment is for six months.

Applications, accompanied by copies of three recent testimonials, should reach me by January 16th.

The accommodation at the Hospital does not permit of women graduates holding this appointment.

L. C. DIXON, Secretary and General Superintendent.

## Royal London Ophthalmic Hospital (MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the post of OUT-PATIENT OFFICER, to attend on Tuesdays and Fridays (mornings) each week.

Candidates must be registered Medical Practitioners.

Salary at the rate of £100 per annum. The Out-patient Officer will be appointed for a period of one year and will be eligible for reappointment.

Copies of regulations can be obtained on application.

Applications, with testimonials, stating age and qualifications, together with photograph, must be received by the undersigned not later than 7th January, 1939.

A. J. M. TARRANT, Secretary.

## East Ham Memorial Hospital, Shrewsbury-road, E.7. (104 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male). Duties to commence on 1st February, 1939.

The appointment will be for six months in the first instance, but the successful candidate will be eligible for reappointment.

Salary at the rate of £200 per annum, with board, residence, and laundry.

Preference will be given to candidates who hold the Diploma of F.R.C.S.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 12th January.

REGINALD PERRY, Secretary.

## King Edward Memorial Hospital, EALING. (145 Beds.)

CASUALTY OFFICER AND DEPUTY RESIDENT MEDICAL OFFICER (Male) required for 1st February, 1939.

Six months' appointment, with possibility of re-election for a further period. Salary £225 per annum, with usual residential emoluments.

Applications, stating age, experience, and qualifications, together with copies of two recent testimonials, should be sent to the undersigned by the 9th January, 1939.

R. A. MICKELWRIGHT, House Governor.

## National Temperance Hospital, Hampstead-road, London, N.W.1.

Applications are invited for the following post:—

HOUSE PHYSICIAN. Salary £100 per annum, board, residence, and laundry allowance being provided. The appointment is for a period of six months as from February 1st. Preference will be given to those who have held resident posts.

Candidates must submit applications, stating qualifications, age, &c., with copies of not more than three testimonials, by Monday, January 9th, addressed to the Secretary.

## Applications are invited for the position of JUNIOR HOUSE SURGEON (Male).

Salary £150 per annum, together with board, residence, and laundry.

Applications, together with copies of three recent testimonials, to be sent to THE SECRETARY, St. Helens Hospital, St. Helens, Lancs, not later than January 6th.

## Rotherham General Hospital.

HONORARY OPHTHALMIC SURGEON.

The Hospital Committee invite applications for the post of Honorary Ophthalmic Surgeon at the above Institution.

Prompt replies to this advertisement are desirable and full particulars can be obtained from the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham.

## The Royal Hospital, Wolverhampton. (Incorporated under Charter.)

RESIDENT ANÆSTHETIST.

Applications are invited for the post of Resident Anæsthetist. The appointment will be for six months, renewable, and the salary £200 per annum, with board and residence. Duties to commence 23rd January next.

The Hospital contains 300 Beds, at present being enlarged to 400 Beds, and is approved by the General Medical Council for part of the requisite attendance on Medical and Surgical Practice.

Applicants should provide evidence of their experience in modern anæsthetic methods; applications should be sent to the undersigned, from whom further information required about the post may be obtained.

W. H. HARPER, House Governor.

Wolverhampton, 12th December, 1938.

## Birmingham and Midland Eye Hospital. (114 Beds.)

Applications are invited from duly qualified Medical Practitioners for the post of HOUSE SURGEON at the above Hospital.

Salary £130 per annum (rising to £150 at the end of six months' satisfactory service) and £10 laundry allowance.

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

Applications, with testimonials, and evidence of registration, should be forwarded immediately to the undersigned.

J. W. PEARCE, House Governor.

Church-street, Birmingham, 3.

## The Radcliffe Infirmary, Oxford.

Applications are invited for the post of ASSISTANT PHYSICIAN to the Department of Physical Medicine. The salary will be at the rate of £400 per annum, and the Assistant Physician will have the right of charging fees to paying patients in the Department, on conditions which will be arranged with the Committee of Management. The appointment will be for a period of one year in the first instance.

Twenty copies of applications and testimonials should be sent to the undersigned not later than Monday, January 23rd, 1939.

A. G. E. SANCTUARY, Administrator.

December, 1938.

## Harrogate Royal Bath Hospital. (A National Hospital for Rheumatic and Allied Diseases.) (150 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) to commence duties beginning of February, 1939.

Salary £200 per annum, with board, residence and laundry.

Exceptional facilities for research or preparation of thesis.

Applications, stating qualifications, age, &c., with copies of recent testimonials, to be forwarded to the undersigned.

E. P. L. DIXON, M.A., Secretary.

## Ancoats Hospital, Manchester, 4.

ASSISTANT PATHOLOGIST, Lady or Gentleman, whole-time appointment—no private work allowed. Salary £400 per annum; live out. Luncheon and tea provided. The appointment is for twelve months and is renewable.

Applications for the above post, stating age and particulars of qualifications and experience, to be forwarded to the undersigned on, or before 4th January, 1939, together with copies of three recent testimonials.

By Order of the Board,

HERBERT J. DAFFORNE, General Superintendent and Secretary.

## County Borough of Blackburn.

ASSISTANT SCHOOL MEDICAL OFFICER AND ASSISTANT MEDICAL OFFICER OF HEALTH (Male).

Applications are invited from registered Medical Practitioners for the post of Assistant School Medical Officer and Assistant Medical Officer of Health (Male) to act under the supervision of the Medical Officer of Health, who is also the School Medical Officer.

The person appointed must devote the whole of his time to the service of the Corporation.

The duties of the office are general, although they will consist largely of work in the School Medical Department. Preference will be given to candidates holding a Diploma in Public Health, who have held resident appointments in General and Infectious Diseases Hospitals.

The salary will be at the rate of £600 per annum, increasing by annual increments of £25 to a maximum of £700 per annum.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Forms of application and further particulars of the duties and conditions of the appointment may be obtained from the Medical Officer of Health, Victoria-street, Blackburn.

Completed forms, together with copies of three recent testimonials, must reach me by Friday, the 6th January, 1939, and should be endorsed on the envelope "Assistant School Medical Officer."

Canvassing, either directly or indirectly, will be a disqualification.

CHAS. S. ROBINSON, Town Clerk.

Town Hall, Blackburn.

## Royal Victoria Hospital, Dover. 66 Beds. Two Residents.

Wanted for beginning of February, R.M.O., duly qualified and registered. Salary £140 per annum, with board, residence, and laundry.

Applications, stating age, with particulars of experience, accompanied by copies of three recent testimonials, should be sent to the Secretary as soon as possible.

## Dundee Royal Infirmary.

RADIOLOGIST.

Owing to unforeseen circumstances applications for the appointment advertised in the last issue of this Journal are no longer desired, and the advertisement is now cancelled. The Directors regret any inconvenience which may have been caused to intending applicants.

W. F. FERGUSON, Secretary, Royal Infirmary, Dundee.

## County of Brecon.

APPOINTMENT OF DISTRICT MEDICAL OFFICER OF HEALTH.

Applications are invited for the appointment of District Medical Officer of Health for the combined areas of the Borough of Brecon, the Urban Districts of Builth Wells, Hay, and Llanwrtyd, and the Rural Districts of Brecknock, Builth, and Hay (360,216 acres, population about 25,000) from 1st April, 1939.

Applicants must be registered in the Medical Register as the holder of a Diploma in Sanitary Science, Public Health, or State Medicine, and must not be over forty-five years of age at the date of application.

The person appointed will be required to perform all the duties imposed on a Medical Officer of Health by Statute and by any Orders, Regulations, or directions from time to time made or given by the Minister of Health, and by any by-laws or instructions of the local authorities concerned in the appointment applicable to the office, and to devote the whole of his time to the duties of his office.

In addition he will be required to undertake the organisation of the Medical Services of the above districts forming part of the Air-raid Precautions Scheme for the county under the general directions of the County Medical Officer of Health and the County Co-ordinating Officer, and he may be required to undertake a certain amount of work in connexion with the medical services provided by the County Council.

Salary £800 per annum, together with an allowance of £100 per annum for travelling, subsistence, provision of office accommodation, and clerical assistance.

The appointment is subject to the approval of the Minister of Health and is pensionable under the provisions of the Local Government Superannuation Act, 1937.

Applications, giving age, medical qualifications, and previous experience (if any), together with copies of three recent testimonials, must be received by me not later than 14th January, 1939.

ALBERT JOLLY, Clerk to the Breconshire County Council.
County Hall, Brecon, 16th December, 1938.

## Borough of Southall.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Men and Women with a public health qualification for the position of full-time Assistant Medical Officer of Health.

The candidate must have had experience in the treatment of cases of Infectious Diseases at an Isolation Hospital, experience in Maternity and Child Welfare Work, and at least three years' experience in the practice of medicine.

The salary will be at the rate of £600 per annum, rising (subject to satisfactory service) by annual increments of £25 to a maximum salary of £700 per annum, with an appropriate car maintenance allowance according to the Council's scale. A deduction will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the appointment will be subject to the successful candidate passing the Council's medical examination in connexion therewith.

Copies of the application form and conditions of appointment can be obtained from the Medical Officer of Health at the Manor House, Southall, to whom applications, accompanied by copies of not more than three recent testimonials, must be delivered not later than 12 o'clock (NOON) on the 14th January, 1939.

Canvassing any Member of the Council by or on behalf of any candidate is prohibited, and will result in the disqualification of that candidate, and each candidate is required to state whether or not he or she is related to any Member or Chief Officer of the Council.

W. STALEY BROOKES, Town Clerk.
Town Hall, Southall, Middlesex, 19th December, 1938.

## Ingham Infirmary, South Shields.

(183 Beds.)

Applications are invited from qualified and registered Medical Men for the post of RESIDENT SURGICAL OFFICER. Salary £300 per annum, with board, residence, &c. Candidates must produce evidence of having had practical Surgical experience in a recognised Hospital. The appointment will be for a minimum period of one year subject to satisfactory service, otherwise to one month's notice on either side.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials (which will not be returned), to be forwarded to the undersigned. The successful applicant will be required to commence duty on the 1st February, 1939.

JOHN POTTER, House Governor and Secretary.

## County Borough of Brighton.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

The Council invite applications for the appointment of Medical Officer of Health at a salary of £1250 per annum, rising by annual increments of £50 to a maximum of £1750.

Forms of application, together with the qualifications, duties, and conditions required or attached to the position, may be obtained from me.

Applications (with copies of three recent testimonials, and endorsed "Medical Officer") must be delivered at my office before 10 o'clock in the forenoon of Tuesday, the 10th day of January, 1939.

Canvassing either directly or indirectly will disqualify.

J. G. DREW, Town Clerk.
Town Hall, Brighton, 19th December, 1938.

## City of Leeds.

PUBLIC HEALTH DEPARTMENT.

ST. JAMES'S HOSPITAL. (1330 Beds.)

RESIDENT MEDICAL OFFICER (Male).

Applications are invited for the above appointment, the duties of which are entirely medical. Candidates must be single, and should have had considerable experience in general medicine and possess one of the higher qualifications. The position offers excellent opportunity for extensive experience in medicine. The person appointed will be required to work under the direction of the Medical Superintendent and in association with the Visiting Physicians. He will also have the supervision of the immediate clinical work of four House Physicians.

Under the present scale of salaries of the Corporation the commencing salary for the post is £350 per annum, and the maximum £450 per annum, with annual increments of £25, subject to satisfactory service. The first increment will take effect on the 1st April following the completion of twelve months' service. Board, residence, and laundry are provided, these emoluments being valued for superannuation purposes at £120 per annum.

The person appointed will be required to pass a medical examination and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922.

The appointment will be terminable by one month's notice.

Applications, on a form to be obtained from the undersigned, together with copies of three recent testimonials, and endorsed "Resident Medical Officer," must be received at the Public Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10 A.M. on Monday, 9th January, 1939.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

## Royal Salop Infirmary, Shrewsbury.

(150 Beds.)

APPOINTMENT OF TWO HOUSE SURGEONS.

Applications are invited from fully qualified unmarried Gentlemen for the posts of Resident House Surgeons, vacant in January, 1939.

Salary £160 per annum, with board, residence, &c.

The appointments are for six months, subject to reappointment.

Applications, stating age, qualifications, experience, and nationality, accompanied by copies of three recent testimonials, to be sent to the undersigned forthwith.

J. W. NOBLE, Secretary-Superintendent.
Board Room, 14th December, 1938.

## Royal Salop Infirmary, Shrewsbury.

(150 Beds.)

APPOINTMENT OF RESIDENT HOUSE PHYSICIAN.

Applications are invited from fully qualified unmarried Gentlemen for the appointment of Resident House Physician, vacant in January, 1939.

Salary £160 per annum, with board, residence, &c.

The appointment is for six months, subject to reappointment. Resident Staff comprises Resident Surgical Officer, Resident House Physician, and two Resident House Surgeons.

The Resident House Physician is Resident Officer to the Medical Wards of the Hospital under the direction of three Honorary Physicians.

Applications, stating age, qualifications, experience, nationality, and accompanied by copies of three recent testimonials, to be sent to the undersigned forthwith.

J. W. NOBLE, Secretary-Superintendent.
Board Room, 14th December, 1938.

## East Riding Mental Hospital, Beverley.

The Visiting Committee of the East Riding Mental Hospital invite applications from registered Medical Practitioners for the appointment of DEPUTY MEDICAL SUPERINTENDENT (Male) of the Hospital at a commencing salary of £600 per annum, increasing by annual increments of £25 to a maximum of £700 per annum, together with emoluments comprising unfurnished house (rent and rates free), and garden produce. The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applicants must have had previous mental hospital experience and be not more than forty years of age.

Applications must be made on forms to be obtained from the undersigned, to whom they must be returned together with copies of three recent testimonials not later than the 14th January, 1939.

GODFREY MACDONALD, Clerk of the Visiting Committee.
County Hall, Beverley, 19th December, 1938.

## City of Leicester.

RESIDENT MEDICAL OFFICER.

Resident Medical Officer (Male) required for the CITY ISOLATION HOSPITAL AND SANATORIUM, Groby-road.

Appointment for a period of six months, renewable if service is satisfactory for a further period of six months.

Salary at the rate of £300 per annum, with the usual residential emoluments. The officer appointed may be required to assist with Infant Welfare work.

Applications, on forms to be supplied, to be sent to the undersigned not later than the 11th January, 1939.

E. K. MACDONALD, Medical Officer of Health.
Health Offices, Grey Friars, Leicester, December, 1938.

## Adwick-le-Street and Bentley-with-Arksey Urban District Councils.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

JOINT APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners holding the Diploma in Public Health, or its equivalent for the above-named whole-time appointment, subject to the provisions of the Sanitary Officers (Outside London) Regulations, 1935, and the Local Government Act, 1933.

The salary attached to the post is £800 per annum, advancing, subject to satisfactory service, by annual increments of £50 to a maximum of £1000 per annum, together with an allowance for travelling expenses of £75 per annum. Office accommodation and any necessary clerical assistance will be provided, or, if necessary, an allowance will be made for their provision. The candidate must not be more than forty-five years of age.

The appointment will be made jointly by the County Council and the District Councils, and the person appointed will not be permitted to engage in private practice and will be required :—

(*a*) To reside either in Adwick-le-Street or Bentley-with-Arksey, or within such distance therefrom as may be approved.

(*b*) As Medical Officer of Health of the Urban Districts of Adwick-le-Street and Bentley-with-Arksey to perform all the duties imposed on a Medical Officer of Health by the relevant Acts and Orders.

(*c*) In his capacity as Assistant County Medical Officer to act under the control and direction of the County Medical Officer.

(*d*) To perform such other public health duties, not being incompatible with the above, as the Councils may jointly decide upon.

In his capacity as Assistant County Medical Officer his duties are calculated to occupy 171 working half days per annum, and will, in the first instance, chiefly consist of the medical inspection of school-children attending the elementary schools in the Adwick-le-Street and Bentley-with-Arksey Urban Districts and the boys who will attend at a secondary school in course of erection in Adwick-le-Street Urban District, but the nature of the duties will be subject to such alterations as may be deemed necessary.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the successful candidate passing a medical examination as to his physical fitness.

Applications, stating age, qualifications, and experience, on prescribed forms, accompanied by copies of not more than three recent testimonials, should reach the Clerks to Adwick-le-Street and Bentley-with-Arksey Urban District Councils, Bank Chambers, High-street, Doncaster, in an envelope endorsed "Medical Officer of Health" not later than 10 A.M. on Monday, the 16th January, 1939.

Canvassing members of the adopting bodies directly or indirectly shall disqualify any candidate for the appointment.

C. R. MARSHALL,
Clerk to Adwick-le-Street Urban District Council.
W. H. CARLILE,
Clerk to Bentley-with-Arksey Urban District Council.

## The Royal Infirmary, Sunderland.

(288 Beds.)

Applications are invited for the post of CASUALTY OFFICER AND HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT for a period of six months from 16th January, 1939, at a salary of £120 per annum, with board, residence, laundry, &c.

Applications to be received by the House Governor and Secretary not later than 5th January, 1939.

## Essex County Council.

ASSISTANT SCHOOL MEDICAL OFFICER.

The County Council of the Administrative County of Essex invite applications for the above appointment from registered Medical Practitioners holding a Diploma of Public Health. Candidates should be not over forty-five years of age, but a candidate's period of service in the late war will be deducted.

The salary will be at the rate of £500 per annum, and will rise, subject to satisfactory service, by annual increments of £25 to £700 per annum.

The person appointed will, at the discretion of the Council, either be provided with a car or will be paid a travelling allowance in accordance with the County Scale for the time being in force.

The appointment will be held by the successful candidate during the pleasure of the Council and will be determinable by the officer by three months' notice in writing.

The person appointed will be required to pass a medical examination and to contribute to the fund established by the County Council under the Local Government and Other Officers' Superannuation Act, 1922.

The appointment will be subject to the Council's Sick Pay Rules and Regulations, a copy of which will be forwarded on application.

Applications on the prescribed form, obtainable from the undersigned, accompanied by copies of not more than three testimonials (which will not be returned) should be addressed, to me and delivered at the County Hall, Chelmsford, not later than 10 A.M. on Monday, the 9th day of January, 1939.

E. S. HOLCROFT, Clerk of the County Council.

County Hall, Chelmsford, 19th December, 1938.

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## Stroud Urban and Rural Districts and Nailsworth Urban District.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL INSPECTOR.

Applications are invited for the appointment of Medical Officer of Health for the above three districts which include an area of 38,422 acres and a population of 38,819. Applicants must be duly qualified and registered Medical Practitioners, hold a Diploma in Public Health or other equivalent qualification, and be under forty years of age.

The applicant appointed will be required to perform the duties of Medical Officer of Health prescribed by the Sanitary Officers (outside London) Regulations, 1935, to act as Medical Superintendent of the Stroud Joint Hospital Board which serves the above three Districts, to undertake medical inspection of children in the schools of the area and to give assistance in other medical work of the County Council as desired. He must reside in or near Stroud and his house must be connected with the Telephone Exchange.

The salary will be £800 per annum, rising by annual increments of £25 per annum to £900 per annum. An allowance of £150 per annum will be paid in respect of travelling and office expenses.

The successful applicant will be required to take up his duties on the 1st April, 1939.

Forms of application can be obtained from either of the undersigned. Applications endorsed "Medical Officer of Health" must be sent, together with copies of three testimonials, not later than the 1st February, 1939, to Mr. G. E. G. Gadsden.

Applicants canvassing either directly or indirectly will be automatically disqualified.

H. S. GIBBONS (Stroud), Clerk, Stroud Urban District Council.
G. E. G. GADSDEN (Stroud), Clerk, Stroud Rural District Council.
G. H. PAVEY SMITH (Nailsworth), Clerk, Nailsworth Urban District Council.

## Northumberland County Council.

WOOLEY SANATORIUM, near HEXHAM.
For the Treatment of Adults Suffering from Tuberculosis.
(180 Beds.)

Applications are invited for the appointment of an ASSISTANT MEDICAL OFFICER at the above Sanatorium. Salary £350 per annum, rising by annual increments of £25 to a maximum of £450, with board, lodgings, and laundry.

The salary will be subject to a percentage deduction in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, for which purpose the selected candidate must undergo a medical examination.

Applicants should be unmarried.

The appointment may be terminated by three months' notice on either side.

Applications containing essential particulars should be addressed to the undersigned, together with copies of three recent testimonials, as soon as possible.

WILLIAM F. J. WHITLEY, County Medical Officer.

County Hall, Newcastle-upon-Tyne., 1.

## Lancaster and District Joint Hospital Board.

RESIDENT MEDICAL OFFICER.

Applications are invited for the appointment of a full-time Resident Medical Officer for the above Board's Isolation Hospital, situate in Slyne-road, Lancaster.

The Hospital (opened in 1934 and extended in 1938) consists of 82 beds for the treatment of infectious diseases, and a Pulmonary Section of 36 beds (under the control of the Lancashire County Council) is attached thereto for nursing and administrative purposes.

Candidates must be registered Medical Practitioners, and will be under the supervision of the Medical Superintendent. Applicants must have experience of bacteriological work and will be given facilities to acquire experience in public health administration in the district, if they so desire.

The salary will be £425 per annum, rising by annual increments of £25 to £525 per annum, together with board, lodging, laundry, and attendance (valued at £150 per annum).

The person appointed will be required to pass a medical examination and to contribute towards the Board's Superannuation Scheme, which involves the payment of 5 per cent. of the salary and value of the emoluments.

Applications, stating age, experience, and present appointment, accompanied by copies of not more than three recent testimonials, to be addressed to me and delivered at my office not later than first post on Saturday, the 7th January, 1939.

Canvassing in any form will disqualify.

R. M. MIDDLETON, Clerk to the Board.

Town Hall, Lancaster, 20th December, 1938.

## Rochdale Infirmary and Dispensary.

(110 Beds.)

The Board of Management invite applications for the appointment of SENIOR HOUSE SURGEON.

The salary attached to the appointment is at the rate of £250 per annum, including board, residence, and laundry.

Applications, stating age, nationality, &c., together with copies of three recent testimonials, to be sent to the Secretary endorsed "House Surgeon." Conditions of the appointment may be had on application to the Secretary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale, Lancs.

## Manchester Royal Infirmary.

MEDICAL REGISTRAR TO OUT-PATIENT DEPARTMENT.
(Non-resident.)

The Board of Management of the Manchester Royal Infirmary invite applications for the above post, vacant 21st February, 1939. Applicants must hold a Medical and Surgical qualification and be registered and also have held a hospital appointment.

The appointment (mornings only—9 A.M. to 1 P.M., Sundays excepted) is for six months, renewable for further periods of six months, subject to the provisions of the bye-laws as to notice, &c. Salary £150 per annum.

Applications, stating age, with testimonials, to be sent to the Chairman of the Medical Board not later than 21st January, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
December, 1938.

## Manchester Royal Infirmary.

BARNES CONVALESCENT HOSPITAL.

RESIDENT JUNIOR MEDICAL OFFICER.

The Board of Management of the Manchester Royal Infirmary invite applications for the above post vacant on 15th February, 1939. Applicants must hold a Medical and Surgical qualification and be registered and have held a hospital appointment.

The appointment is for six months, renewable for a further period of six months, subject to the provisions of the bye-laws as to notice, &c. Salary at the rate of £150 per annum, with board, residence, and allowance for laundry.

Applications, stating age, with testimonials, to be sent to the Chairman of the Medical Board not later than 21st January, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
December, 1938.

## Manchester Royal Infirmary.

Posts vacant :—

Two HOUSE PHYSICIANS for 15th February, 1939.
Two HOUSE PHYSICIANS for 15th March, 1939.
Four HOUSE SURGEONS, General Surgical Units, for 15th February, 1939.
One HOUSE SURGEON, Aural, Gynæcological and Ophthalmic Departments, for 15th February, 1939.
One HOUSE SURGEON, Neuro-surgical Unit, for 15th February, 1939.
One HOUSE SURGEON, Orthopædic Unit, for 15th February, 1939.

The Board of Management of the Manchester Royal Infirmary invite applications for the above appointments.

The appointments for the General Surgical Units are for nine months and the others for six months, subject to the provisions of the bye-laws as to notice, &c. Salaries at the rate of £50 per annum, with board, residence, and allowance for laundry.

Applicants must hold a medical and surgical qualification and be registered. They may apply for more than one of the above posts and if so should state their preference.

Applications, stating age, qualifications, and experience to be sent to the Chairman of the Medical Board before 21st January, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
December, 1938.

## Corporation of Glasgow.

PUBLIC HEALTH DEPARTMENT.

WOODILEE MENTAL HOSPITAL, LENZIE, GLASGOW.

Applications are invited for the post of SECOND ASSISTANT RESIDENT MEDICAL OFFICER (Male, single), General Hospital experience preferred. Salary £300, rising to £350, with board, lodging, and laundry. The appointment, after six months' probation, is subject to the provisions of the Asylum Officers' Superannuation Act, 1909.

Applications, stating age and experience, and accompanied by copies of not more than two recent testimonials, to be sent to the Physician-Superintendent.

## The Royal Liverpool Children's HOSPITAL.

There will be vacancies on April 1st next for Two RESIDENT HOUSE PHYSICIANS and Two RESIDENT HOUSE SURGEONS at the CITY BRANCH, Myrtle-street. The appointments will be for a period of six months. Salary in each case at the rate of £100 per annum.

Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Wednesday, 11th January, 1939.

There will be vacancies on April 1st next for One RESIDENT MEDICAL OFFICER and One RESIDENT SURGICAL OFFICER at the HESWALL BRANCH of the Institution (240 Beds). The appointments will be for a period of six months. Salary in each case at the rate of £120 per annum.

Applications, with copies of recent testimonials, to be sent to the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, on or before Wednesday, 11th January, 1939.

## The Corporation of the City of Glasgow.

POLICE DEPARTMENT.

APPOINTMENT OF WHOLE-TIME CASUALTY SURGEONS.

The Corporation of the City of Glasgow propose to appoint three whole-time Casualty Surgeons to the Glasgow Police Force, and applications are invited from Members of the Medical Profession having the necessary qualifications for these appointments.

Candidates, unless they are at present in the service of the Corporation, must not be less than thirty nor more than forty-five years of age. The salary fixed for the positions is £600 per annum, rising by biennial increments of £30 to £750 per annum, for each of the three appointments.

The appointments will be made subject to the conditions and duties laid down by the Corporation, a copy of which together with the necessary Form of Application may be obtained at the Office of the Subscriber, Room 44, City Chambers, Glasgow. The candidates recommended for the appointment must be physically fit and undergo a medical examination for admission to the Corporation Superannuation Scheme in respect of which a deduction will be made from their salaries at the rate of 5 per cent. per annum.

Applications on the prescribed form must be lodged with the undersigned not later than Tuesday, 31st January, 1939, endorsed on the outside "Casualty Surgeons."

J. L. MACKENZIE, Town Clerk.
City Chambers, Glasgow, C.2, 28th December, 1938.

## Royal Sussex County Hospital,

BRIGHTON, 7.

Applications are invited for the office of HONORARY ORTHOPÆDIC SURGEON from gentlemen who are Masters of Surgery of one of the Universities of the British Empire, or Fellows of the Royal College of Surgeons of England, Edinburgh, or Ireland, and who are duly registered under the Medical Acts.

Particulars of the duties of the appointment may be obtained from, and applications must reach the undersigned at the hospital before 12 NOON on the 21st January, 1939.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

## The Salisbury General Infirmary, Wilts.

(200 Beds. 4 Residents.)

Applications are invited for the following posts, vacant on 1st February, 1939.

(*a*) RESIDENT MEDICAL OFFICER. Salary £250 per annum, with board, residence, and laundry. Tenable for a period of twelve months and renewable.

(*b*) HOUSE PHYSICIAN. Salary £125 per annum, with board, residence, and laundry. Tenable for a period of six months and renewable.

Candidates (Male) must be unmarried, and should have held previous hospital appointments.

Applications, stating age, nationality, qualifications, &c., together with copies of testimonials, should reach the undersigned not later than Saturday, 14th January, 1939.

JOHN WILLIAMS, Secretary-Superintendent.

## The Victoria Infirmary of Glasgow.

(555 Beds.)

The Governors invite applications for the appointment of a whole-time PATHOLOGIST AND DIRECTOR of the Clinical Research Laboratory. Salary £1000 per annum. Particulars of the duties may be obtained from the Medical Superintendent at the Infirmary.

The successful candidate may also be appointed to a University Lectureship with an honorarium of £100 per annum.

Sixteen copies of application and testimonials to be lodged with the undersigned not later than 31st January, 1939.

JOHN W. ROBSON, Secretary and Treasurer.
40, St. Vincent-place, Glasgow, C.1, 28th December, 1938.

## City of Sheffield Education Committee.

APPOINTMENT OF SCHOOL MEDICAL OFFICER.

Applications are invited for the appointment of a School Medical Officer. Commencing salary £800 per annum, rising to £1000 per annum by biennial increments of £50, subject to satisfactory service.

The post is designated as an Established Post under the Local Government and Other Officers' Superannuation Act, 1922. The successful candidate will be required to pass a medical examination.

Forms of application and particulars of the appointment may be obtained from this Office and must be returned not later than 21st January, 1939.

Personal canvassing will disqualify.

H. S. NEWTON, Chief Education Officer.
Leopold-street, Sheffield, December 31st, 1938.

## Hertfordshire County Council.

CELL BARNES COLONY, ST. ALBANS.

HOUSE PHYSICIAN wanted, January 1st, 1939.

Six-monthly appointment, and renewable for a further six months. Good experience in practice of Mental Deficiency in modern Colony.

£200 per annum and residence, laundry, &c.

Apply to Medical Superintendent.

## Weston-super-Mare Hospital.

(80 Beds.)

HOUSE PHYSICIAN.

Applications are invited for the post of Resident House Physician at this hospital. Salary at the rate of £150 per annum, with board, rooms, and laundry. Duties commencing 19th January, 1939.

Applications, stating age, qualifications, and enclosing copies of testimonials, should be addressed to the undersigned.

LESLIE J. FURSLAND, Secretary.

## Gloucestershire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Gloucestershire County Council invite applications for the appointment of an Assistant County Medical Officer of Health (Male). The salary will be on the scale £600 per annum by £25 to £700 per annum. Travelling and subsistence allowances will be paid in accordance with the Council's scale. The post is designated for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination by the Council's medical adviser. Applicants must be registered Medical Practitioners and should hold a Diploma in Public Health. Previous experience in various branches of public health and school medical work is desirable. Forms of application, with particulars of the duties and conditions of appointment, may be obtained from the County Medical Officer of Health, Shire Hall, Gloucester, to whom completed applications, with copies of three recent testimonials, should be sent not later than the 17th January, 1939. Canvassing, directly or indirectly, will disqualify.

RICHARD L. MOON, Clerk of the County Council.

## Hull Corporation Health Department.

ANLABY ROAD INSTITUTION (HOSPITAL).
(580 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with an allowance at the rate of £150 per annum for board and residence outside the hospital.

As the appointee will be required to work mainly in the Medical Wards, preference will be given to candidates with higher degrees in Medicine and special post-graduate experience in General Medicine.

The hospital is equipped with modern X-Ray and Radium Departments.

The appointment will be designated under the Local Government and Other Officers' Superannuation Act, 1922.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, the 16th January, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.
Health Department, Guildhall, Hull, December 21st, 1938.

## The Royal Army Medical Corps

ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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## Round passed TOM LONG: Between

each puff

A quiet murmur "That's the stuff!"

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12. LONDON, S.E.—PLEASANT RESIDENTIAL SUBURB.—PARTNERSHIP.—One-half Share in very sound old-estab. mixed-class Practice. Receipts stated to average between £3000–£3100 p.a. Panel of 3100. Appointments worth about £280 p.a. Good house with large garden (6 bedrooms, &c.). Rent £100 p.a. Premium 2 years' purchase. Ingoing partner should be English or Scottish, 30 or over, and preferably married.
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